

PR detecting cpds. which inhibit the ability of HBV pX protein to
PT promote DNA binding to bZIP-contg. transcription factors.

XX Example 1; Page 14; 47pp; English.

CC The invention relates to novel methods of screening for inhibitors of
CC hepatitis B virus (HBV) replication by identifying inhibitors of the HBV
CC protein pX, which activates viral transcription by binding multiple
CC transcription factors such as proteins contg. a bZIP domain, from binding
CC to the transcription factors. This sequence was used to investigate the
CC effect of pX on the binding of the bZIP-contg. transcription factors
CC of the AP-1 family such as C/EBP, to its cognate binding site, in a gel
CC shift assay. The inhibitory cpds. may be antibodies, small organic mols.
CC or peptides.

XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 17; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.53; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TGCAGATTGGCAGAACTGCA 20
1 TGCAGATTGGCAGAACTGCA 20

RESULT 2

AAT32689/c AAT32689 standard; DNA; 20 BP.

AC AAT32689;

DT 24-FEB-1997 (first entry)

DE C/EBP binding site sequence.

XX Inhibitor: hepatitis B virus; replication; protein pX; activation;
KW transcription factor; bZIP domain; AP-1; collagenase TRE binding site;
KW c-Jun; gel shift assay; ss.

XX Synthetic.

XX MO9617960-A2.

XX 13-JUN-1996.

XX 06-DEC-1995; 95WO-US16821.

XX 07-DEC-1994; 94US-0351659.

PA (SCRT-) SCRIPGEN PHARM INC.
PA (OTMA-) UNITV MASSACHUSETTS MEDICAL CENT.

PI Green MD, Lillie J, Perini G;

DR WPI; 1996-287203/29.

XX Identifying inhibitors of hepatitis B virus replication - by
PT detecting cpds. which inhibit the ability of HBV pX protein to
PT promote DNA binding to bZIP-contg. transcription factors.

PS Example 1; Page 14; 47pp; English.

CC The invention relates to novel methods of screening for inhibitors of
CC hepatitis B virus (HBV) replication by identifying inhibitors of the HBV
CC protein pX, which activates viral transcription by binding multiple
CC transcription factors such as proteins contg. a bZIP domain, from binding
CC to the transcription factors. This sequence was used to investigate the
CC effect of pX on the binding of the bZIP-contg. transcription factors
CC of the AP-1 family such as C/EBP, to its cognate binding site, in a gel
CC shift assay. The inhibitory cpds. may be antibodies, small organic mols.
CC or peptides.

SQ Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 17; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.53; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TGCAGATTGGCAGAACTGCA 20
1 TGCAGATTGGCAGAACTGCA 1

RESULT 3

AAV46005 AAV46005 standard; DNA; 20 BP.

AC AAV46005;

DT 16-OCT-1998 (first entry)

DE Immune adjuvant C/EBP.

XX Immune system; adjuvant; vaccine; cancer; prophylactic; pathogenicity;
KW modulator; tolerance; regulator; helper cell; antigen; immunoglobulin;
KW Ig class; autoimmune response; T-cell; B-cell; tumour; ss.

XX Class Bacteria.

XX EP855184-A1.

XX 29-JUL-1998.

XX 23-JAN-1997; 97EP-0101019.

XX 23-JAN-1997; 97EP-0101019.

PA (HEEG/) HEEG K.
PA (LIPF/) LIPFORD G B.
PA (WAGN/) WAGNER H.

PI Heeg K, Lipford GB, Wagner H;

DR WPI; 1998-389630/34.

XX Antigenic composition comprises polynucleotide fragment and antigen
PT - used as vaccine to treat or prevent e.g. cancer or pathogen
PT infections and to modulate immune response e.g. tolerance break and
PT regulation of TH1/TH2 cells

PS Example 5; Page 9; 28pp; English.

CC AAV45993-V46019 are fragments of bacterial polynucleotides which are
CC used as immune adjuvants for inclusion into vaccines to treat cancer and
CC for prophylaxis and/or treatment of conditions caused by pathogenic
CC micro-organisms. The polynucleotide is used for modulation of an immune
CC response and the modulation is selected from the group break of
CC tolerance, regulation of TH1/TH2 helper cell responses, switch of Ig
CC classes, treatment of autoimmune responses and induction of tolerances.
CC DNA oligomers are used to enhance the reactivity of immune cells to
CC viral, bacterial and parasitic antigens, as adjuvants in vaccination
CC and B cells e.g. against tumour antigens, as adjuvants in vaccination
CC against tumour-defined antigens and immunostimulatory substances in an
CC immune response against tumours and to suppress immune reactions of the
CC innate and acquired immune system. The composition is inexpensive and
CC stable and does not cause lethal shock, which happens with prior art
CC bacterial sequences.

XX Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 19; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.53; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TGCAGATTGGCAGAACTGCA 20

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 09:43:36 ; Search time 226.087 Seconds
(without alignments)
199.215 Million cell updates/sec

Title: US-09-355-254f-13

Perfect score: 20

Sequence: 1 tgcagattgcgcacatctgca 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues 4370478

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: /SID52/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:*
3: /SID52/gcgdata/geneseq/geneseq-emb1/NA1982.DAT:*
4: /SID52/gcgdata/geneseq/geneseq-emb1/NA1983.DAT:*
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22: /SID52/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:*
23: /SID52/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:*
24: /SID52/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	20	17	AAT32689	C/EBP binding site
2	20	17	AAT32689	C/EBP binding site
3	20	19	AAV46005	Immune adjuvant C/
4	20	19	AAV46005	Immune adjuvant C/
5	20	20	AAZ25682	Transcription fact
6	20	20	AAZ25682	Transcription fact
7	20	20	AAZ25682	Transcription fact
8	20	20	AAZ25682	Transcription fact
9	20	20	AAZ25682	Transcription fact

C	10	20	100.0	20	21	AAA53297	Fluorescein C/EBP
C	11	20	100.0	20	21	AAA27522	Electrophoretic mo
C	12	20	100.0	20	21	AAA27522	Electrophoretic mo
C	13	20	100.0	20	21	AAA27523	Electrophoretic mo
C	14	20	100.0	20	21	AAA27523	Electrophoretic mo
C	15	20	100.0	20	21	AAZ89652	Rabbit C/EBP bindi
C	16	20	100.0	20	21	AAZ89652	Rabbit C/EBP bindi
C	17	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	18	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	19	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	20	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	21	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	22	20	100.0	20	22	AAH26604	C/EBP oligonucleot
C	23	15.8	79.0	110	21	AAH26604	C/EBP oligonucleot
C	24	15.8	79.0	110	21	AAH26604	C/EBP oligonucleot
C	25	15.4	77.0	24	24	AAH26604	C/EBP oligonucleot
C	26	15.4	77.0	24	24	AAH26604	C/EBP oligonucleot
C	27	15.4	77.0	24	24	AAH26604	C/EBP oligonucleot
C	28	15.2	76.0	235	22	ABAL3061	Human secreted pro
C	29	15.2	76.0	426	24	ABAL3061	Human secreted pro
C	30	15.2	76.0	426	24	ABAL3061	Human secreted pro
C	31	15.2	76.0	426	24	ABAL3061	Human secreted pro
C	32	15.2	76.0	442	22	AAH87932	Peppermint plant o
C	33	15.2	76.0	528	22	AAH87932	Peppermint plant o
C	34	15.2	76.0	528	22	AAH87932	Peppermint plant o
C	35	15.2	76.0	528	22	AAH87932	Peppermint plant o
C	36	15.2	76.0	528	22	AAH87932	Peppermint plant o
C	37	15.2	76.0	541	24	ABAL3061	Human ovarian PC
C	38	15.2	76.0	541	24	ABAL3061	Human ovarian PC
C	39	15.2	76.0	541	24	ABAL3061	Human ovarian PC
C	40	15.2	76.0	541	24	ABAL3061	Human ovarian PC
C	41	15.2	76.0	541	24	ABAL3061	Human ovarian PC
C	42	15.2	76.0	584	22	AAH24508	Breast cancer rela
C	43	15.2	76.0	584	22	AAH24508	Breast cancer rela
C	44	15.2	76.0	584	22	AAH24508	Breast cancer rela
C	45	15.2	76.0	602	23	ABAL10777	Human ovarian PC

ALIGNMENTS

RESULT 1	AAT32689	standard; DNA; 20 BP.
ID	AAT32689	
AC	AAT32689	
NC	AAT32689	
DT	24-FEB-1997	(first entry)
DE	C/EBP binding site sequence.	
DE	C/EBP binding site sequence.	
KW	Inhibitor: hepatitis B virus; replication; protein pX; activation;	
KW	transcription factor; ZIP domain; AP-1; collagenase TRE binding site;	
KW	c-Jun; gel shift assay; ss.	
OS	Synthetic.	
PN	W09617960-A2	
PD	13-JUN-1996.	
PF	06-DEC-1995;	95WO-US16821.
PR	07-DEC-1994;	94US-0351659.
PA	(SCRI-) SCRIPGEN PHARM INC.	
PA	(UTMA-) UNIV MASSACHUSETTS MEDICAL CENT.	
PI	Green MD, Lillie J, Perini G;	
DR	WPI; 1996-287203/29.	
PT	Identifying inhibitors of hepatitis B virus replication - by	

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sequences of 1032, 1050 or 1032 amino acids as given in specification, or
CC their fragments, where TLR9, TLR7 and TLR8 polypeptides or their
CC fragments have an amino acid sequence which is identical to human TLR9,
CC TLR7 or TLR8 polypeptides or their fragment except for at least one amino
CC acid of a murine TLR polypeptide. The isolated nucleic acids of the
CC invention are useful for inhibiting TLR9 signalling activity in a cell.
CC TLR7, TLR8 and TLR9 polypeptides are useful for identifying nucleic acid
CC molecules which interact with a TLR polypeptide or its fragment. The
CC TLR7, TLR8 or TLR9 polypeptides are also useful for identifying TLR9
CC TLR7, TLR8 and TLR9 polypeptides are also useful for identifying TLR9
CC signalling activity of a test compound (that is not a nucleic acid, and
CC is a polypeptide or a part of a combinatorial library of compounds) with
CC an ISNA. The TLR7, TLR8 and TLR9 polypeptides are also useful for
CC identifying species specificity of an ISNA. The isolated nucleic acids of
CC the invention are useful as probes or primers. This polynucleotide
CC sequence represents DNA relating to the isolated Toll-like receptors of
CC the invention.

SQ Sequence 20 BP; 2 A; 5 C; 11 G; 2 T; 0 other;

Query Match 100.0%; Score 20; DB 24; Length 20;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCGATCGGGCGGGCGGAGC 20
|||||
DB 1 TCGATCGGGCGGGCGGAGC 20

RESULT 4
AA18820 standard; DNA: 22 BP.

AA18820:
17-AUG-1996 (first entry)
SPL motif.

DE NF- κ B; transcription factor; major histocompatibility complex; MHC;
KW allergy; HLA-DRA; ds.

OS Homo sapiens.
XX
PN W09612823-AL
XX
PD 02-MAY-1996.

XX 20-OCT-1995; 95WO-US12749.
XX
XX 21-OCT-1994; 94US-0327832.

XX (HARD) HARVARD COLLEGE.
PA (UJO) UNIV JOHNS HOPKINS.
XX
XX Ono SJ, Strominger JL;

XX WPI; 1996-230621/23.
DR

XX Transcription factor, NF- κ B and DNA encoding it - used in regulation
PT of MHC class II expression and in treatment of allergic disease

XX Example 4; Page 42; 93pp; English.

PS Recombinant transcription factor NF- κ B (see AAR94957) forms a
XX specific complex with the HLA-DRA XI box oligonucleotide (AA18817)
CC which is competed for by 100-fold excess cold, double-stranded
CC oligonucleotides containing the analogous regions from the HLA-DRA,
CC -DRA, -DPA and -DQB promoters, but not by HLA-DRA Y-box
CC (AA18818), S-box (AA18819), SPI (AA18820) or the Interferon-beta gene
CC positive-regulatory domain II element (AA18821). It is concluded
CC that NF- κ B binds sequence-specifically with all human class II
CC major histocompatibility XI boxes (see also AA18812).

XX SQ Sequence 22 BP; 3 A; 5 C; 11 G; 3 T; 0 other;

Query Match 100.0%; Score 20; DB 17; Length 22;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCGATCGGGCGGGCGGAGC 20
|||||
DB 3 TCGATCGGGCGGGCGGAGC 22

RESULT 5
AA17128 standard; DNA: 22 BP.

AA17128:
07-DEC-1997 (first entry)
SPL consensus.

DE 17-Beta-hydroxysteroid dehydrogenase type I; HSD17B1; human;
KW promoter; ds.

XX Synthetic.
XX W09720942-AL.
XX 12-JUN-1997.
XX 04-DEC-1996; 96WO-F100647.
XX 05-DEC-1995; 95US-0007976.

XX (OIKK) OIKARINEN J A.
PA (PELTO) PELTOKETO E H.
PA (PIAO) PIAO Y.
PA (VIHK) VIHKO R K.

XX Oikarinen JA, Peltoketo EH, Piao Y, Viikko RK;
FI WPI; 1997-319788/29.

XX Human 17-beta-hydroxysteroid dehydrogenase type I (HSD17B1)
PT transcription regulatory elements - used for identifying agents
PT which can up- or down-regulate HSD17B1 expression to increase or
PT decrease oestrogen production

XX Example 6; Page 38; 69pp; English.

XX This oligonucleotide comprises a consensus sequence for Spl
CC binding sites. It was used with oligonucleotides (see
CC AAT77122-24 and AAT77126-27) based on the promoter region of the human
CC 17-beta-hydroxysteroid dehydrogenase type I (HSD17B1) gene (see
CC AAT77112), and with an Ap-2 consensus oligonucleotide (see AAT77125),
CC in the detailed characterisation of the HSD17B1 promoter, and to
CC examine the role of Spl and Ap-2 binding sites in promoter
CC function.

XX SQ Sequence 22 BP; 3 A; 5 C; 11 G; 3 T; 0 other;

Query Match 100.0%; Score 20; DB 18; Length 22;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCGATCGGGCGGGCGGAGC 20
|||||
DB 3 TCGATCGGGCGGGCGGAGC 22

RESULT 6
AA176050

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FEATURES
SOURCE
LIPFORD GRAYSON B (DE); HEBG KLAUS (DE)
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Location/Qualifiers
/db_xref="taxon:32644"

SE COUNT 5 a 3 c 4 g 8 t
IGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TATGCATATTCCTGTAAGT 20
|||||
1 TATGCATATTCCTGTAAGT 20

SOLUT 2
0883
FINITION Sequence 18 from Patent EP0855184.
CESSION A90883
RSION A90883.1 GI:6739312

WORDS
ORCE
ORGANISM
unidentified.
unclassified.

REFERENCE 1 (bases 1 to 20)
AUTHORS Heeg, K.P. and Lipford, G.B.
TITLE Pharmaceutical composition comprising a polynucleotide and an antigen especially for vaccination
Patent: EP 0855184-A 18 29-JUL-1998;
HEBG KLAUS PROF DR (DE); LIPFORD GRAYSON B DR (DE)
Location/Qualifiers

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1.20
/organism="unidentified"
/db_xref="taxon:32644"
SE COUNT 5 a 3 c 4 g 8 t
IGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TATGCATATTCCTGTAAGT 20
|||||
1 TATGCATATTCCTGTAAGT 20

SOLUT 3
455591
FINITION Sequence 68 from Patent WO0222809.
CESSION A455591
RSION A455591.1 GI:21714659

WORDS
ORCE
ORGANISM
synthetic construct.
artificial sequences.

REFERENCE 1
AUTHORS Bauer, S., Lipford, G. and Wagner, H.
TITLE Process for high throughput screening of cpg-based immuno-agonist/antagonist
Patent: WO 0222809-A 68 21-MAR-2002;
JOURNAL Coley Pharmaceutical GmbH (DE)
Location/Qualifiers

FEATURES
SOURCE
1.20
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Synthetic oligonucleotide"
3 c 4 g 8 t

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TATGCATATTCCTGTAAGT 20
|||||
1 TATGCATATTCCTGTAAGT 20

RESULT 4
MUSLY6A2 4524 bp DNA linear ROD 27-APR-1993
LOCUS MUS musculus Ly-6A.2 alloantigen gene, complete cds.

DEFINITION M73552
ACCESSION M73552.1 GI:198925
VERSION 1
KEYWORDS
SOURCE
MUS musculus (strain C57BL/6) (library: EMBL-3 C57BL/6) adult liver DNA.

ORGANISM

Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.

REFERENCE 1 (bases 1 to 4524)
AUTHORS Stanford, W.L., Brynys, E. and Snodgrass, H.R.
TITLE The isolation and sequence of the chromosomal gene and regulatory regions of Ly-6A.2
JOURNAL Immunogenetics 35 (6), 408-411 (1992)
MEDLINE 92250126
PubMed 1315719

FEATURES
SOURCE
Location/Qualifiers

1.4524
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/strain="C57BL/6"

/db_xref="taxon:10090"
/map="chromosome XV, Ly-6"
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/dev_stage="adult"

/germline
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LCNVAVPGSGSTWMAVGLTSLSSVLTLL"

1977..2943
/gene="Ly-6A.2"

/number=2
2943..3059
/gene="Ly-6A.2"

/number=3
3060..4031
/gene="Ly-6A.2"

ILL

Jun 27 14:14:49 2003

us-09-355-254f-17.rge

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ORIGIN Chromosome XV.

Query Match 100.0%; Score 20; DB 10; Length 4524;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TATGCATATTCCTGTAAGTG 20
|||||
375 TATGCATATTCCTGTAAGTG 394

RESULT 5
MUSLY6A 4524 bp DNA linear ROD 28-JUL-1999
LOCUS Mus musculus Ly-6A.2 (Ly-6A) gene, complete cds.
ACCESSION M74013
VERSION M74013.1 GI:198923
KEYWORDS
SOURCE Mus musculus.
ORGANISM Mus musculus.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
AUTHORS 1 (bases 1 to 4524)
JOURNAL Stanford, W.L., Brynys, E. and Snodgrass, H.R.
FEATURES
unpublished
Location/Qualifiers
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/organism="Mus musculus"
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/chromosome="15"
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join(1907..1976,2943..3059,4032..4249)
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/codon_start=1
/product="Ly-6A.2"
/protein_id="AA39464.1"
/db_xref="GI:198924"
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TCYPDGCYTOEAAVYDSOTRKNKLCLPICPPIESMEILGTRVNVKTSQCOED
LCNVAAPNGSGSTFTMGVILFSLSSVLTQTL"

BASE COUNT 1103 a 1031 c 1149 g 1241 t
ORIGIN

Query Match 100.0%; Score 20; DB 10; Length 4524;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TATGCATATTCCTGTAAGTG 20
|||||
375 TATGCATATTCCTGTAAGTG 394

RESULT 6
MUSLY6A 6249 bp DNA linear ROD 27-APR-1993
LOCUS Mouse Ly-6E/A gene, complete cds.
ACCESSION M37707
VERSION M37707.1 GI:198929
KEYWORDS differentiation antigen; interferon inducible antigen.
SOURCE Mouse (strain BALB/c) DNA.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 6249)

AUTHORS Khan, K.D., Lindvall, G., Maher, S.E. and Bothwell, A.L.
TITLE Characterization of promoter elements of an interferon-inducible
Ly-6E/A differentiation antigen, which is expressed on activated T
cells and hematopoietic stem cells
JOURNAL Mol. Cell. Biol. 10 (10), 5150-5159 (1990)
MEDLINE 90377204
PubMed 1697928

COMMENT Draft entry and computer-readable sequence for [Mol. Cell. Biol.
(1990) in press] kindly submitted
by A.L.M. Bothwell, 13-AUG-1990.
Location/Qualifiers
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/organism="Mus musculus"
/strain="BALB/c"
/sub_species="domesticus"
/db_xref="taxon:10090"
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3259..3473
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FEATURES
source

exon
introns
exon
CDS
mat_peptide

BASE COUNT 1592 a 1419 c 1572 g 1666 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 19;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 7
AC117802/c 161084 bp DNA linear HTG 09-AUG-2002
LOCUS Mus musculus clone RP24-56018, WORKING DRAFT SEQUENCE, 6 unordered
pieces.
DEFINITION
ACCESSION AC117802
VERSION AC117802.2 GI:22165187

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LOCUS HUMIRF2 585 bp DNA linear PRI 29-MAY-2002
 DEFINITION Human gene for Interferon regulatory factor-2 (IRF-2), exon 1.
 ACCESSION D14082
 VERSION D14082.1 GI:468933
 KEYWORDS IRF-2; Interferon regulatory factor-2; transcription factor.
 SOURCE Homo sapiens DNA, clone lib:Dr.Tom Maniatis's library.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 1 Itoh,S., Harada,H., Fujita,T., Mamura,T. and Taniguchi,T.
 Sequence of a cDNA coding for human IRF-2
 Nucleic Acids Res. 17 (20), 8372 (1989)
 JOURNAL MEDLINE 90045964
 AUTHORS 2 (bases 1 to 585)
 Harada,H., Takahashi,E., Itoh,S., Harada,K., Horii,T.A. and
 Taniguchi,T.
 Structure and regulation of the human Interferon regulatory factor
 1 (IRF-1) and IRF-2 genes: implications for a gene network in the
 Interferon system
 JOURNAL MOJ. Cell. Biol. 14 (2), 1500-1509 (1994)
 MEDLINE 94119101
 REFERENCE 3 (bases 1 to 585)
 Harada,H.
 Direct Submission
 Submitted (20-JAN-1993) Hisashi Harada, Osaka University, Institute
 for Molecular and Cellular Bio: 1-3 Yamada-oka, Suita, Osaka Pref.
 565, Japan (Tel:06-877-5289, Fax:06-878-9846)
 Submitted (20-JAN-1993) to DDBJ By:
 Hisashi Harada
 Institute for Molecular and
 Cellular Biology, Osaka University
 1-3 Yamadaoka
 Suita-shi, Osaka 565
 Japan
 Phone: 06-877-5289
 Fax: 06-878-9846.

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 misc_feature
 102 a 184 c 185 g 114 t
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 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 7
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 DEFINITION Homo sapiens Interferon regulatory factor 2 (IRF2) gene, 5' flank.
 ACCESSION L24442
 VERSION L24442.1 GI:438637
 KEYWORDS Interferon regulatory factor 2.
 SOURCE Homo sapiens Placenta DNA.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 1565)
 AUTHORS Cha,Y. and Deisseroth,A.B.
 TITLE Human Interferon regulatory factor 2 gene. Intron-exon organization
 and functional analysis of 5'-flanking region
 JOURNAL J. Biol. Chem. 269 (7), 5279-5287 (1994)
 MEDLINE 94148994
 PUBMED 8106512

FEATURES
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 /db_xref="taxon:9606"
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 1455. 1464
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OY 1 AACCGAAATGAATTGACT 20
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 Db 1226 AACCGAAATGAATTGACT 1245

RESULT 8
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 DEFINITION Homo sapiens BAC clone RP11-326111 from 4, complete sequence.
 ACCESSION AC099343
 VERSION AC099343.3 GI:18543145
 KEYWORDS HTG.
 SOURCE Homo sapiens
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 196216)
 AUTHORS Sulston,J.E. and Waterston,R.
 TITLE Toward a complete human genome sequence
 JOURNAL Genome Res. 8 (11), 1097-1108 (1998)
 MEDLINE 99063792
 PUBMED 9847074
 REFERENCE 2 (bases 1 to 196216)
 AUTHORS Levy,A., Haakenson,W. and Spalding,L.

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16/10, Moscow V-437, 117871GSP7, Russia
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Best Local Similarity 100.0%; Pred. No. 16;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 9
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LOCUS      Human Interleukin-13 (IL-13) precursor gene, complete cds.
DEFINITION      U31120
ACCESSION      U31120
VERSION      U31120.1 GI:1045451
KEYWORDS
SOURCE
ORGANISM      Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 5670)
Dolganov,G., Bort,S., Lovett,M., Burr,J., Schubert,L., Short,D.,
McGurn,M., Gibson,C. and Lewis,D.B.
Coexpression of the interleukin-13 and interleukin-4 genes
correlates with their physical linkage in the cytokine gene cluster
on human chromosome 5q23-31
ON Human chromosome 5q23-31
R100 87 (8), 3316-3326 (1996)

JOURNAL
MEDLINE      96184791
PubMed      8605348
2 (bases 1 to 5670)
Dolganov G.M.
Direct Submission
Submitted (06-JUN-1995) Gregory M. Dolganov, Human Genetics,
Genelabs, Inc., 505 Penobscot, Redwood City, CA 94063, USA
Location/Qualifiers
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FEATURES
SOURCE
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gene

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 Matches 18; Conservative 0; Pseudomatches 0; Indels 0; Gaps 0;
 0y 1 GGAAATGACGTCCTCGTG 18
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 Db 826 GGAAATGACGTCCTCGTG 843
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 AF377331
 LOCUS DEFINITION Homo sapiens interleukin 13 (IL13) gene, complete cds.
 ACCESSION AF377331
 VERSION AF377331.2 GI:14278714
 KEYWORDS
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens; Chordata; Craniata; Vertebrata; Euteleostomi;
 Eukaryota; Metazoa; Primates; Catarrhini; Homidae; Homo.
 REFERENCE AUTHORS 1 (bases 1 to 6919)
 Rieder,M.J., Carrington,D.P., Chung,M.-W., Lee,K.L., Poel,C.L.,
 Yi,O. and Nickerson,D.A.
 TITLE Direct Submission
 JOURNAL Submitted (04-MAY-2001) Molecular Biotechnology, University of
 Washington, 1705 NE Pacific, Seattle, WA 98195, USA
 REFERENCE 2 (bases 1 to 6919)
 Rieder,M.J., Carrington,D.P., Chung,M.-W., Lee,K.L., Poel,C.L.,
 Yi,O. and Nickerson,D.A.
 AUTHORS Direct Submission
 JOURNAL Submitted (01-JUN-2001) Molecular Biotechnology, University of
 Washington, 1705 NE Pacific, Seattle, WA 98195, USA
 REMARK Sequence update by submitter
 On Jun 1, 2001 this sequence version replaced gi:14091715.
 To cite this work please use: SeattleSNPs, NHLBI Program for
 Genomic Applications, UW-FHCRC, Seattle, WA (URL:
 http://pga.mbt.washington.edu).

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

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(without alignments)
202,980 Million cell updates/sec

Title: US-09-355-254F-12

Perfect score: 20

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Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	20	100.0	22	2	US-08-828-584-12
3	20	100.0	22	5	PCT-US94-05659-16
4	19	95.0	46	1	US-08-122-433-12
5	19	95.0	46	1	US-08-122-433-12
6	18	90.0	46	1	US-08-122-433-12
7	18	90.0	46	1	US-08-122-433-12
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9	16.8	84.0	15144	3	US-08-458-434A-6
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13	15.8	79.0	31	2	US-08-460-507-4
14	15.8	79.0	944	2	US-08-786-606-4
15	15.8	79.0	1112	2	US-08-933-750C-97
16	15.8	79.0	1112	3	US-09-234-613-97
17	15.8	79.0	1919	1	US-07-991-587A-1
18	15.8	79.0	1919	1	US-08-309-985-1
19	15.8	79.0	3314	1	US-07-973-324A-5
20	15.8	79.0	3314	1	US-08-343-380-5
21	15.8	79.0	3314	4	US-09-072-435-5
22	15.8	79.0	3314	4	US-09-072-917A-5
23	15.2	76.0	80	3	US-09-039-555B-4
24	15.2	76.0	730	3	US-08-743-637B-11
25	15.2	76.0	730	3	US-08-526-840B-11
26	15.2	76.0	1007	4	US-08-836-500A-13
27	15.2	76.0	1008	3	US-08-721-979A-13

C	28	15.2	76.0	1008	4	US-09-654-289-13	Sequence 13, Appl
	29	15.2	76.0	9704	4	US-09-814-951A-3	Sequence 3, Appl
	30	15.2	76.0	44377	2	US-08-804-227C-7	Sequence 7, Appl
	31	15.2	76.0	44377	2	US-08-804-198-1	Sequence 1, Appl
C	33	15.2	76.0	4403765	4	US-09-103-840A-2	Sequence 2, Appl
	34	15.2	76.0	4411529	4	US-09-103-840A-1	Sequence 1, Appl
	35	14.8	74.0	645	4	US-08-998-616-114	Sequence 114, App
	36	14.8	74.0	4060	1	US-08-164-292B-1	Sequence 1, Appl
	37	14.8	74.0	4060	1	US-08-164-292B-3	Sequence 3, Appl
	38	14.8	74.0	4060	1	US-08-164-292B-5	Sequence 5, Appl
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	42	14.8	74.0	4060	3	US-08-845-623-5	Sequence 5, Appl
	43	14.8	74.0	4060	3	US-08-845-623-7	Sequence 7, Appl
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	45	14.8	74.0	4060	3	US-08-815-927-3	Sequence 3, Appl
						US-08-815-927-5	Sequence 5, Appl

ALIGNMENTS

RESULT 1
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Sequence 12, Application US/08327832
Patent No. 5840832
GENERAL INFORMATION:
APPLICANT: Onco, Santa J.
APPLICANT: Strominger, Jack L.
TITLE OF INVENTION: Transcription Factor Regulating MHC
TITLE OF INVENTION: Expression, cDNA and Genomic Clones Encoding Same and
TITLE OF INVENTION: Retroviral Expression Constructs Thereof
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner, Birch, McKie & Beckett
STREET: 1001 G Street, N.W.
CITY: Washington, D.C.
STATE: District of Columbia
COUNTRY: U.S.A.
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/327,832
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Posorske, Laurence H.
REGISTRATION NUMBER: 34,698
TELEPHONE: 202-508-9153
TELECOMMUNICATION INFORMATION:
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: homo sapiens
US-08-327-832-12
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Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3 TCGATCGGGCGGGCGGAGC 22
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RESULT 2
US-08-828-584-12
Sequence 12, Application US/08828584
Patent No. 5908762
GENERAL INFORMATION:
APPLICANT: Ono, Santa J.
APPLICANT: Strominger, Jack L.
TITLE OF INVENTION: Transcription Factor Regulating MHC
TITLE OF INVENTION: Expression, cDNA and Genomic Clones Encoding Same and
NUMBER OF INVENTION: Retroviral Expression Constructs Thereof
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner, Birch, McKie & Beckett
STREET: 1001 G Street, N.W.
CITY: Washington, D.C.
STATE: District of Columbia
COUNTRY: U.S.A.
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/828,584
FILING DATE:
CLASSIFICATION: A35
ATTORNEY/AGENT INFORMATION:
NAME: Posorske, Laurence H.
REGISTRATION NUMBER: 34,698
REFERENCE/DOCKET NUMBER: 1107,46362
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9153
TELEFAX: 202-508-9299
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: homo sapiens
US-08-828-584-12
Query Match 100.0%; Score 20; DB 2; Length 22;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3 TCGATCGGGCGGGCGGAGC 22
PCT-US94-05659-16
RESULT 3
Sequence 16, Application PC/TUS9405659
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: TNF-RESPONSIVE ELEMENT, TNF-INDUCED DNA-BINDING
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millita Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02173
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/05659
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Granhaug, Patricia
REGISTRATION NUMBER: 32,227
REFERENCE/DOCKET NUMBER: FDC93-01 FF
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-861-6240
TELEFAX: 617-861-9540
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 22 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
PCT-US94-05659-16
US-08-122-433-12
Query Match 100.0%; Score 20; DB 5; Length 22;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 3 TCGATCGGGCGGGCGGAGC 22
RESULT 4
US-08-122-433-12
Sequence 12, Application US/08122433
Patent No. 5683985
GENERAL INFORMATION:
APPLICANT: Chu, Barbara C.F.
APPLICANT: Orgel, Leslie
TITLE OF INVENTION: OLIGOPEPTIDES USEFUL AS DECOYS FOR PROTEINS WHICH
TITLE OF INVENTION: OLIGOPEPTIDES USEFUL AS DECOYS FOR PROTEINS WHICH
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: PRETTY, SCHROEDER, BRUEGEMANN & CLARK
STREET: 444 South Flower Street, Suite 2000
CITY: Los Angeles
STATE: California
COUNTRY: USA
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/122,433
FILING DATE: 22-SEP-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/687,337
FILING DATE: 18-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P31 9308
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-546-1995
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-08-122-433-12

Query Match 95.0%; Score 19; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 7.8;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGATCGGGCGGGCGAG 19
DB 28 TCGATCGGGCGGGCGAG 46

RESULT 5
US-08-122-433-13

Sequence 13, Application US/08122433
Patent No. 5683985

GENERAL INFORMATION:

APPLICANT: Chu, Barbara C.F.

APPLICANT: Orgel, Leslie

TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES AND

TITLE OF INVENTION: OLIGONUCLEOTIDES USEFUL AS DECOYS FOR PROTEINS WHICH

NUMBER OF SEQUENCES: 47

NUMBER OF SEQUENCES: 47

CORRESPONDENCE ADDRESS:

ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK

STREET: 444 South Flower Street, Suite 2000

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/122,433

FILING DATE: 22-SEP-1993

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/687,337

FILING DATE: 18-APR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.

REGISTRATION NUMBER: 31,192

REFERENCE/DOCKET NUMBER: P31 9308

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-546-1995

TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: circular

MOLECULE TYPE: other nucleic acid
US-08-122-433-13

Query Match 95.0%; Score 19; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 7.8;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCGATCGGGCGGGCGAG 19
DB 28 TCGATCGGGCGGGCGAG 46

RESULT 6

US-08-122-433-12/c
Sequence 12, Application US/08122433

Patent No. 5683985

GENERAL INFORMATION:

APPLICANT: Chu, Barbara C.F.

APPLICANT: Orgel, Leslie

TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES AND

TITLE OF INVENTION: OLIGONUCLEOTIDES USEFUL AS DECOYS FOR PROTEINS WHICH

NUMBER OF SEQUENCES: 47

NUMBER OF SEQUENCES: 47

CORRESPONDENCE ADDRESS:

ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK

STREET: 444 South Flower Street, Suite 2000

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/122,433

FILING DATE: 22-SEP-1993

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/687,337

FILING DATE: 18-APR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Reiter, Stephen E.

REGISTRATION NUMBER: 31,192

REFERENCE/DOCKET NUMBER: P31 9308

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-546-1995

TELEFAX: 619-546-9392

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 46 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid
US-08-122-433-12

Query Match 90.0%; Score 18; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GATCGGGCGGGCGAGC 20
DB 24 GATCGGGCGGGCGAGC 7

RESULT 7

US-08-122-433-13/c
Sequence 13, Application US/08122433

Patent No. 5683985

GENERAL INFORMATION:

APPLICANT: Chu, Barbara C.F.

APPLICANT: Orgel, Leslie

TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDES AND

TITLE OF INVENTION: OLIGONUCLEOTIDES USEFUL AS DECOYS FOR PROTEINS WHICH

NUMBER OF SEQUENCES: 47

NUMBER OF SEQUENCES: 47

CORRESPONDENCE ADDRESS:

ADDRESSEE: PRETTY, SCHROEDER, BRUEGGEMANN & CLARK

STREET: 444 South Flower Street, Suite 2000

CITY: Los Angeles

STATE: California

COUNTRY: USA

ZIP: 90071

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/122.433
FILING DATE: 22-SEP-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/687,337
FILING DATE: 18-APR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Reiter, Stephen E.
REGISTRATION NUMBER: 31,192
REFERENCE/DOCKET NUMBER: P31 9308
TELEPHONE: 619-546-1995
TELEFAX: 619-546-9392
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: circular
MOLECULE TYPE: other nucleic acid
US-08-122-433-13

Query Match 90.0%; Score 18; DB 1; Length 46;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 GATCGGGGGGGGCGAGC 20
DB 24 GATCGGGGGGGGCGAGC 7

RESULT 8
US-08-458-434A-4/c
Sequence 4, Application US/08458434A
Patent No. 6083690
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Stephen E.
APPLICANT: Mundy M.D., Gregory R.
APPLICANT: Gosh-Choudhury Ph.D., Nandini
APPLICANT: Feng Ph.D., Jian Q.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: James C. Weseman, Esq.
STREET: 401 B. Street, Suite 1700
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458.434A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weseman, James C.
REGISTRATION NUMBER: 30,507
REFERENCE/DOCKET NUMBER: P00060US0
TELEPHONE: (619) 699-3604
TELEFAX: 619-236-1048
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2875 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-458-434A-4

Query Match 84.0%; Score 16.8; DB 3; Length 2875;
Best Local Similarity 90.0%; Pred. No. 41;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGATCGGGGGGCGGCGAGC 20
DB 1805 TCGACGGGGGGGCGGCGAGC 1786

RESULT 9
US-08-458-434A-6/c
Sequence 6, Application US/08458434A
Patent No. 6083690
GENERAL INFORMATION:
APPLICANT: Harris Ph.D., Stephen E.
APPLICANT: Mundy M.D., Gregory R.
APPLICANT: Gosh-Choudhury Ph.D., Nandini
APPLICANT: Feng Ph.D., Jian Q.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: James C. Weseman, Esq.
STREET: 401 B. Street, Suite 1700
CITY: San Diego
STATE: CA
COUNTRY: USA
ZIP: 92101
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458.434A
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weseman, James C.
REGISTRATION NUMBER: 30,507
REFERENCE/DOCKET NUMBER: P00060US0
TELEPHONE: (619) 699-3604
TELEFAX: 619-236-1048
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 15144 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-458-434A-6

Query Match 84.0%; Score 16.8; DB 3; Length 15144;
Best Local Similarity 90.0%; Pred. No. 35;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCGATCGGGGGGCGGCGAGC 20
DB 1805 TCGACGGGGGGGCGGCGAGC 1786

RESULT 10
US-08-145-617-5/c
Sequence 5, Application US/08145617
Patent No. 5766847
GENERAL INFORMATION:
APPLICANT: Jackie, Herbert

APPLICANT: Tautz, Diethard
TITLE OF INVENTION: PROCESS FOR ANALYZING LENGTH
TITLE OF INVENTION: POLYMORPHISMS IN DNA REGIONS
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSER: BIRCH, STEWART, KOLASCH & BIRCH
STREET: 301 N. Washington Street, P.O. Box 747
CITY: Falls Church
STATE: Virginia
COUNTRY: United States of America
ZIP: 22046
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/145,617
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/681,494
FILING DATE: 10-JUN-1991
APPLICATION NUMBER: DE P3834636.2
FILING DATE: 11-OCT-1988
ATTORNEY/AGENT INFORMATION:
NAME: Svensson, Leonard R.
REGISTRATION NUMBER: 30,330
REFERENCE/DOCKET NUMBER: 147-122PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-241-1300
TELEFAX: 703-241-2848
TELEX: 248345
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 379 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-145-617-5

Query Match 82.0%; Score 16.4; DB 1; Length 379;
Best Local Similarity 94.4%; Pred. No. 73;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GATGGGGGGGGGAGC 20
DB 64 GATTGGGGGGGGGAGC 47

RESULT 11
US-08-153-563-4/c
Sequence 4, Application US/08153563
Patent No. 5693506
GENERAL INFORMATION:
APPLICANT: Rodriguez, Raymond L.
TITLE OF INVENTION: PROCESS FOR PROTEIN PRODUCTION
TITLE OF INVENTION: IN PLANTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSER: Townsend and Townsend Kourile and Crew
STREET: Stuart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/153,563
FILING DATE: 16-NOV-1993
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Kenneth A.
REGISTRATION NUMBER: 31,677
REFERENCE/DOCKET NUMBER: 2307E-515
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 543-9600
TELEFAX: (415) 543-5043
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..31
OTHER INFORMATION: /standard_name="31 bp Rany3E"

US-08-153-563-4

Query Match 79.0%; Score 15.8; DB 1; Length 31;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CGATCGGGGGGGGAGC 20
DB 23 CGATCGAGCGCGCGAGC 5

RESULT 12
US-09-038-227-9/c
Sequence 9, Application US/09038227
Patent No. 5917029
GENERAL INFORMATION:
APPLICANT: Yu, Su-May
TITLE OF INVENTION: SUGAR-RESPONSIVE ENHANCERS
TITLE OF INVENTION: IN ALPHA-AMYLASE GENES
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSER: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: US
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows95
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/038,227
FILING DATE: 11-MAR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Tsao, Y. Rocky
REGISTRATION NUMBER: 34,053
REFERENCE/DOCKET NUMBER: 05228/031001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617/542-5070
TELEFAX: 617/542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear

MOLECULE TYPE: Genomic DNA
US-09-038-227-9
Query Match 79.0%; Score 15.8; DB 2; Length 31;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 CGATCGGGCGGGCGGAGC 20
DB 23 CGATCGAGCGCGCGGAGC 5
RESULT 13
US-08-460-507-4/c
Sequence 4, Application US/08460507
Patent No. 5994628
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: PROCESS FOR PROTEIN PRODUCTION
TITLE OF INVENTION: IN PLANTS
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dehlinger & Associates
STREET: 350 Cambridge Avenue, Suite 250
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94306
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/460,507
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/153,563
FILING DATE: 16-NOV-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 2000-0452.41
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..31
OTHER INFORMATION: /standard_name="31 bp Ramy3E"
US-08-460-507-4
Query Match 79.0%; Score 15.8; DB 2; Length 31;
Best Local Similarity 89.5%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 CGATCGGGCGGGCGGAGC 20
DB 23 CGATCGAGCGCGCGGAGC 5
RESULT 14
US-08-786-606-4
Sequence 4, Application US/08786606
Patent No. 5861495

GENERAL INFORMATION:
APPLICANT: Hallman, Jennifer L.
APPLICANT: Au-Young, Janice
APPLICANT: Coleman, Roger
APPLICANT: Golt, Surya K.
TITLE OF INVENTION: NOVEL HUMAN ZINC-BINDING
PROTEINS
TITLE OF INVENTION: 9
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/786,606
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Billings, Lucy RJ
REGISTRATION NUMBER: 36,749
REFERENCE/DOCKET NUMBER: PF-0173 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-845-4166
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 944 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-786-606-4
Query Match 79.0%; Score 15.8; DB 2; Length 944;
Best Local Similarity 89.5%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 CGATCGGGCGGGCGGAGC 20
DB 145 CGAGCGGGCGGGCGGAGC 163
RESULT 15
US-08-933-750C-97
Sequence 97, Application US/08933750C
Patent No. 5932442
GENERAL INFORMATION:
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Shan, Puvvi
APPLICANT: Au-Young, Janice
APPLICANT: Yue, Henry
APPLICANT: Guegler, Karl J.
APPLICANT: Corley, Neil C.
TITLE OF INVENTION: HUMAN REGULATORY MOLECULES
NUMBER OF SEQUENCES: 98
CORRESPONDENCE ADDRESS:
ADDRESSEE: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA


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: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FASTSEQ for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/933,750C
: FILING DATE: September 23, 1997
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Billings, Lucy J.
: REGISTRATION NUMBER: 36,749
: REFERENCE/DOCKET NUMBER: PF-0356 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-855-0555
: TELEFAX: 415-845-4166
: TELEX:
: INFORMATION FOR SEQ ID NO: 97:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1112 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: TESTNOT07
: CLONE: 3217567
: US-08-933-750C-97

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Query Match          79.0%; Score 15.8; DB 2; Length 1112;
Best Local Similarity 89.5%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db      147 CGAGCGGGCGGGCGGCGGCG 165

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Title: US-09-355-254F-11

Perfect score: 20

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Scoring table: IDENTITY_NDC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

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Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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4	20	100.0	21	3	US-08-764-528-2
5	20	100.0	21	3	US-08-872-859-2
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7	18.4	92.0	21	1	US-08-210-880a-3
8	18.4	92.0	21	2	US-08-632-275-1
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13	18.4	92.0	21	4	US-08-088-661F-42
14	15.2	76.0	1446	3	US-09-191-099-7
15	15.2	76.0	1446	3	US-09-191-099-8
16	15.2	76.0	5894	3	US-08-665-259-24
17	15.2	76.0	5894	3	US-08-762-500-24
18	15.2	76.0	6525	3	US-08-762-500-74
19	14.8	74.0	80161	3	US-09-036-987A-1
20	14.8	74.0	80161	4	US-09-370-700-1
21	14.4	72.0	903	4	US-09-457-046B-5
22	14.4	72.0	1338	4	US-08-800-682-1
23	14.4	72.0	22306	4	US-09-457-046B-51
24	14.4	72.0	46819	4	US-09-453-702B-251
25	14.2	71.0	400	4	US-09-453-702B-72
26	14.2	71.0	534	2	US-08-301-718-1
27	14.2	71.0	534	2	US-08-770-544-19

28	14.2	71.0	590	2	US-08-600-999-1	Sequence 1, Appl1
29	14.2	71.0	1251	4	US-09-355-115-1	Sequence 1, Appl1
30	14.2	71.0	1462	3	US-08-961-083-41	Sequence 41, Appl1
31	14.2	71.0	2384	1	US-07-688-352C-27	Sequence 27, Appl1
32	14.2	71.0	2384	2	US-08-474-379C-27	Sequence 27, Appl1
33	14.2	71.0	2384	3	US-09-146-249A-27	Sequence 27, Appl1
34	14.2	71.0	2384	3	US-08-206-188B-27	Sequence 25, Appl1
35	14.2	71.0	2384	5	PCT-US91-02714-25	Sequence 17, Appl1
36	14.2	71.0	15239	1	US-08-390-878-17	Sequence 7, Appl1
37	14.2	71.0	19702	4	US-08-961-527-7	Sequence 2, Appl1
38	14.2	71.0	4403765	4	US-09-103-840A-2	Sequence 2, Appl1
39	14.2	71.0	4403765	4	US-09-103-840A-2	Sequence 1, Appl1
40	14.2	71.0	4411529	4	US-09-103-840A-1	Sequence 1, Appl1
41	14.2	71.0	4411529	4	US-09-103-840A-1	Sequence 1, Appl1
42	13.8	69.0	21	1	US-08-203-198-1	Sequence 1, Appl1
43	13.8	69.0	945	4	US-09-149-476-168	Sequence 168, App
44	13.8	69.0	12720	1	US-08-403-866-11	Sequence 11, Appl1
45	13.6	68.0	26	1	US-07-791-213D-68	Sequence 68, Appl1

ALIGNMENTS

RESULT 1
US-08-507-598-2
Sequence 2, Application US/08507598
Patent No. 5834188
GENERAL INFORMATION:
APPLICANT: HARADA, SHUN-ICHI
APPLICANT: SAMPATH, T. K.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
TITLE OF INVENTION: MORPHOGEN ANALOGS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: THIBEAULT
ADDRESSEE: TRIENT ADMINISTRATOR, TESTA, HUEWITZ &
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/507,598
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMOND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: CRP-107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)-248-7000
TELEFAX: (617)-248-7100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..21
OTHER INFORMATION: /product= "API SEQUENCE"
US-08-507-598-2
Query Match 100.0%; Score 20; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.058;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTGATGACTGACCGGAA 20
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DB 2 GCTGATGACTGACCGGAA 21

RESULT 2

US-08-507-750-2
; Sequence 2, Application US/08507750
; Patent No. 5932716
; GENERAL INFORMATION:
; APPLICANT: SAMPATH, T. K.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
; TITLE OF INVENTION: MORPHOGEN ANALOGS
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HURWITZ &
; ADDRESS: TRIBAULT
; STREET: 53 STATE STREET
; CITY: BOSTON
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/507,750
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: PITCHER, EDMUND R.
; REGISTRATION NUMBER: 27,829
; REFERENCE/DOCKET NUMBER: CRP-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)-248-7000
; TELEFAX: (617)-248-7100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..21
; OTHER INFORMATION: /product="API SEQUENCE"
; US-08-507-750-2

Query Match 100.0%; Score 20; DB 2; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.058;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTGATGACTGACCGGAA 20
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DB 2 GCTGATGACTGACCGGAA 21

RESULT 3

US-08-764-522A-2
; Sequence 2, Application US/08764522A
; Patent No. 6090544
; GENERAL INFORMATION:
; APPLICANT: HARADA, SHUN-ICHI
; APPLICANT: SAMPATH, T. K.
; APPLICANT: RODAN, GIDEON A.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
; TITLE OF INVENTION: MORPHOGEN ANALOGS
; NUMBER OF SEQUENCES: 10

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,522A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: VITO, CHRISTINE C.
; REGISTRATION NUMBER: 39,061
; REFERENCE/DOCKET NUMBER: CRP-126
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)-248-7000
; TELEFAX: (617)-248-7100
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 21 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 1..21
; OTHER INFORMATION: /product="API SEQUENCE A"

US-08-764-522A-2

Query Match 100.0%; Score 20; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.058;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTGATGACTGACCGGAA 20
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DB 2 GCTGATGACTGACCGGAA 21

RESULT 4

US-08-764-528-2
; Sequence 2, Application US/08764528
; Patent No. 6103491
; GENERAL INFORMATION:
; APPLICANT: SAMPATH, K. T.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
; TITLE OF INVENTION: MORPHOGEN ANALOGS
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PATENT ADMINISTRATOR, CREATIVE BIOMOLECULES
; STREET: 45 SOUTH STREET
; CITY: HOPKINTON
; STATE: MA
; COUNTRY: USA
; ZIP: 01748
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/764,528
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: VITO, CHRISTINE C.
; REGISTRATION NUMBER: 39,061

REFERENCE/DOCKET NUMBER: CRP-127
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)-248-7000
TELEFAX: (617)-248-7100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..21
OTHER INFORMATION: /product= "API SEQUENCE A"
US-08-764-528-2

Query Match 100.0%; Score 20; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
Db 2 GCTTGATGACTCAGCCGGAA 21

RESULT 5
US-08-872-859-2
Sequence 2, Application US/08872859
Patent No. 6110460
GENERAL INFORMATION:
APPLICANT: SAMPATH, T. K.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR IDENTIFYING
TITLE OF INVENTION: MORPHOGEN ANALOGS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: PATENT ADMINISTRATOR, TESTA, HUEWITZ &
ADDRESSEE: THIBEAULT
STREET: 53 STATE STREET
CITY: BOSTON
STATE: MA
COUNTRY: USA
ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/872,859
FILING DATE: 11-JUN-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/507,750
FILING DATE: 26-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: PITCHER, EDMUND R.
REGISTRATION NUMBER: 27,829
REFERENCE/DOCKET NUMBER: CRP-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)-248-7000
TELEFAX: (617)-248-7100
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..21
OTHER INFORMATION: /product= "API SEQUENCE"

US-08-872-859-2

Query Match 100.0%; Score 20; DB 3; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.058;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
Db 2 GCTTGATGACTCAGCCGGAA 21

RESULT 6
US-08-283-591-15
Sequence 15, Application US/08283591
Patent No. 5629152
GENERAL INFORMATION:
APPLICANT: Ravikumar, Vasullaga
TITLE OF INVENTION: NOVEL TRISUBSTITUTED -LACTAMS AND
TITLE OF INVENTION: OLIGO -LACTAMAMIDES
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz and
ADDRESSEE: No. 5629152r1s
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/283,591
FILING DATE: N/A
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME:
REGISTRATION NUMBER:
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 21
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
US-08-283-591-15

Query Match 92.0%; Score 18.4; DB 1; Length 21;
Best Local Similarity 95.0%; Pred. No. 0.42;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
Db 2 GCTTGATGACTCAGCCGGAA 21

RESULT 7
US-08-210-880B-3
Sequence 3, Application US/08210880B
Patent No. 5641486
GENERAL INFORMATION:
APPLICANT: HINRICH, STEVEN H.
TITLE OF INVENTION: METHOD AND COMPOSITION FOR INHIBITING
TITLE OF INVENTION: CREB/ATF1 FAMILY DETERMINED TRANSCRIPTION

NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: HENDERSON & STURM
STREET: 1125 S. 103RD ST., #330
CITY: OMAHA
STATE: NE
COUNTRY: US
ZIP: 68124
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/210,880B
FILING DATE: 18-MAR-1994
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: JONDL, ROBERT J.
REGISTRATION NUMBER: 33,915
REFERENCE/DOCKET NUMBER: 63066
TELECOMMUNICATION INFORMATION:
TELEPHONE: 402-398-9005
TELEFAX: 402-398-9005
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-210-880B-3

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 1; Length 21;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCTTGATGACTGACCGGAA 20
DB 2 GCTTGATGACTGACCGGAA 21

RESULT 8
US-08-632-275-1/c
Sequence 1, Application US/08632275
Patent No. 5840277
GENERAL INFORMATION:
APPLICANT: GILLO, Andrew J.
TITLE OF INVENTION: Treatment of Chronic Pulmonary
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bell, Seltzer, Park & Gibson
STREET: 1211 East Morehead Street
CITY: Charlotte
STATE: No. 5840277th Carolina
COUNTRY: USA
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/632,275
FILING DATE: 15-APR-1996
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/413,699
FILING DATE: 30-MAR-1995
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:

NAME: Lipscomb, Ernest B.
REGISTRATION NUMBER: 24,733
REFERENCE/DOCKET NUMBER: 8751-S-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 704-334-6000
TELEFAX: 704-334-2014
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FRAGMENT TYPE: linear
US-08-632-275-1

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 2; Length 21;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCTTGATGACTGACCGGAA 20
DB 2 GCTTGATGACTGACCGGAA 1

RESULT 9
US-08-771-411-3
Sequence 3, Application US/08771411
Patent No. 5844096
GENERAL INFORMATION:
APPLICANT: HIRNICH, STEVEN H.
TITLE OF INVENTION: METHOD AND COMPOSITION FOR INHIBITING
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: HENDERSON & STURM
STREET: 1125 S. 103RD ST., #330
CITY: OMAHA
STATE: NE
COUNTRY: US
ZIP: 68124
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/771,411
FILING DATE: 20-DEC-1996
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/210,880
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: JONDL, ROBERT J.
REGISTRATION NUMBER: 33,915
REFERENCE/DOCKET NUMBER: 63066
TELECOMMUNICATION INFORMATION:
TELEPHONE: 402-398-9005
TELEFAX: 402-398-9005
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-771-411-3

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 2; Length 21;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 2 GCTTGATGACTCAGCCGGAA 21

RESULT 10

US-09-097-929-1/C
Sequence 1, Application US/09097929
Patent No. 6024940
GENERAL INFORMATION:
APPLICANT: Ghio, Andrew J.
TITLE OF INVENTION: Treatment of Chronic Pulmonary
TITLE OF INVENTION: Inflammation
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Bell, Seltzer, Park & Gibson
STREET: 1211 East Morehead Street
CITY: Charlotte
STATE: No. 6024940th Carolina
COUNTRY: USA
ZIP: 28234
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/097,929
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,275
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Lipscomb, Ernest B.
REGISTRATION NUMBER: 24,733
REFERENCE/DOCKET NUMBER: 8751-5-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 704-331-6000
TELEFAX: 704-334-2014
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FRAGMENT TYPE: linear
US-09-097-929-1

Query Match 92.0%; Score 18.4; DB 3; Length 21;
Best Local Similarity 95.0%; Pred. No. 0.42;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
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Db 20 GCTTGATGACTCAGCCGGAA 1

RESULT 11
US-09-021-247-8

Sequence 8, Application US/09021247
Patent No. 6225444
GENERAL INFORMATION:
APPLICANT: Shashoua, Victor E.
TITLE OF INVENTION: NEUROPROTECTIVE PEPTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: MA

COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/021,247
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Van Amsterdam, John R.
REGISTRATION NUMBER: 40,212
REFERENCE/DOCKET NUMBER: N0260/7023
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
TELEFAX: 617-720-2441
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: oligonucleotide
HYPOTHETICAL: NO
US-09-021-247-8

Query Match 92.0%; Score 18.4; DB 4; Length 21;
Best Local Similarity 95.0%; Pred. No. 0.42;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
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Db 2 GCTTGATGACTCAGCCGGAA 21

RESULT 12
US-08-088-661F-8
Sequence 8, Application US/08088661F
Patent No. 6228982
GENERAL INFORMATION:
APPLICANT: No. 6228982den, Bengel
APPLICANT: Wiltung, Pernilla
APPLICANT: Buchardt, Ole
APPLICANT: Egholm, Michael
APPLICANT: Nielsen, Peter E.
APPLICANT: Berg, Rolf
TITLE OF INVENTION: Double-Stranded Peptide Nucleic Acids
FILE REFERENCE: ISIS1108
CURRENT APPLICATION NUMBER: US/08/088,661F
CURRENT FILING DATE: 1993-07-02
PRIOR FILING DATE: 1993-04-26
PRIOR APPLICATION NUMBER: PCT/EP92/01219
PRIOR FILING DATE: 1992-05-19
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 8
LENGTH: 21
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: No. 6228982zel Sequence
US-08-088-661F-8

Query Match 92.0%; Score 18.4; DB 4; Length 21;
Best Local Similarity 95.0%; Pred. No. 0.42;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTTGATGACTCAGCCGGAA 20
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Db 2 GCTTGATGACTCAGCCGGAA 21

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LOCATION: (24)
OTHER INFORMATION: n = unknown
FEATURE:
NAME/KEY: modified_base
LOCATION: (26)
OTHER INFORMATION: n = unknown
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NAME/KEY: modified_base
LOCATION: (122)
OTHER INFORMATION: n = unknown
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OTHER INFORMATION: n = unknown
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OTHER INFORMATION: n = unknown
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LOCATION: (1293)
OTHER INFORMATION: n = unknown
US-09-191-099-7

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Best Local Similarity 76.0%; Score 15.2; DB 3; Length 1400;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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DB 1097 GCTTGAGACTCTGCGGAA 1116

RESULT 15
US-09-191-099-8
Sequence 8, Application US/09191099
Patent No. 6096323
GENERAL INFORMATION:
APPLICANT: Walker, Richard L.
APPLICANT: Read, Deryck H.
APPLICANT: Hird, David W.
APPLICANT: LeFebvre, Rance B.
APPLICANT: Berry, Steven L.
APPLICANT: Cullor, James S.
APPLICANT: Lettier, Hank M.
TITLE OF INVENTION: Vaccine Against Papillomatous Digital Dermatitis (PDD)
FILE REFERENCE: 023070-0811005
CURRENT FILING DATE: 1998-11-12
EARLIER APPLICATION NUMBER: US 08/943,571
EARLIER FILING DATE: 1997-10-03
NUMBER OF SEQ ID NOS: 20
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 1446
TYPE: DNA
ORGANISM: Treponema sp.
US-09-191-099-8

Query Match
Best Local Similarity 76.0%; Score 15.2; DB 3; Length 1446;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Y 1 GCTTGATGACTCAGCCGGA 20

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Fri Jun 27 14:14:39 2003

us-09-355-254f-11.rni

Page 7

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 11:19:15 ; Search time 1529.13 seconds
(without alignments)
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Title: US-09-355-254f-12

Perfect score: 20

Sequence: 1 tcgacgcggcgcgagcgcagc 20

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Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: em_esthum:*
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12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
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25: em_gss_other:*
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27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	95.0	311	10	BE654158 UI-M-ANI-
2	19	95.0	429	9	AT005447 AT005447
3	17.4	87.0	375	10	AM122220 UI-M-BH2.
4	17.4	87.0	379	9	AI846527 UI-M-ANI-
5	17.4	87.0	406	9	AA615769 VO72108.F
6	17.4	87.0	423	13	BI220387 602935686

Result No.	Score	Query Match	Length	DB ID	Description
7	17.4	87.0	437	10	BB859799 BB859799
8	17.4	87.0	498	9	AI194235 AI194235
9	17.4	87.0	443	10	BE650594 UI-M-BH2.
10	17.4	87.0	530	12	BF015640 uy27b02.Y
11	17.4	87.0	679	13	BI111370 BI111370
12	17.4	87.0	709	14	BQ445767 BQ445767
13	17.4	87.0	741	14	BQ444735 UI-M-ERO-
14	17.4	87.0	735	14	BQ445216 UI-M-ERO-
15	17.4	87.0	764	13	BI146925 602911551
16	17.4	87.0	774	12	BI172820 602337255
17	17.4	87.0	776	14	BQ746273 UI-M-ERO-
18	17.4	87.0	791	13	BI100531 602886667
19	17.4	87.0	795	13	BI332398 602883536
20	17.4	87.0	795	13	BI332398 602883536
21	17.4	87.0	807	13	BI332398 602883536
22	17.4	87.0	827	13	BI332398 602883536
23	17.4	87.0	832	13	BI332398 602883536
24	17.4	87.0	843	13	BI332398 602883536
25	17.4	87.0	864	12	BI332398 602883536
26	17.4	87.0	865	13	BI332398 602883536
27	17.4	87.0	883	13	BI332398 602883536
28	17.4	87.0	907	14	BO930419 BO930419
29	17.4	87.0	918	12	BF134993 BF134993
30	17.4	87.0	919	12	BF244020 BF244020
31	17.4	87.0	919	12	BF383950 BF383950
32	17.4	87.0	934	13	BI412920 BI412920
33	17.4	87.0	938	13	BF384726 BF384726
34	17.4	87.0	976	11	AK012729 AK012729
35	17.4	87.0	994	12	BE540625 BE540625
36	17.4	87.0	997	12	BE580130 BE580130
37	17.4	87.0	1073	11	AK020514 AK020514
38	17.4	87.0	1081	13	BI852239 BI852239
39	17.4	87.0	1083	11	BC012031 BC012031
40	17.4	87.0	1101	11	AK010792 AK010792
41	17.4	87.0	1114	11	AK020515 AK020515
42	17.4	87.0	1115	11	AK019289 AK019289
43	17.4	87.0	1254	13	BI554612 BI554612
44	17.4	85.0	508	10	BE232703 BE232703
45	17.4	85.0	525	13	BI360501 BI360501

ALIGNMENTS

RESULT 1
BE654158 311 bp mRNA linear EST 06-SEP-2000
UI-M-ANI-aff-f-04-0-01.r2 NIH-BMAP_MBG_N Mus musculus CDNA clone
DEFINITION
UI-M-ANI-aff-f-04-0-01 5', mRNA sequence.
ACCESSION
BE654158
VERSION
BE654158.1 GI:9980071
KEYWORDS
EST.
SOURCE
house mouse.
ORGANISM
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1 (bases 1 to 311)
AUTHORS
Bonaldo, M.F., Lennon, G. and Soares, M.B.
TITLE
Normalization and subtraction: two approaches to facilitate gene
discovery
JOURNAL
Genome Res. 6 (9), 791-806 (1996)
MEDLINE
97044477
COMMENT
Contact: Chn, H
National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: MEST@nimh.nih.gov
CDNA Library Preparation: M.B. Soares lab Clone distribution:
Researchers may obtain BMAP CDNA clones from RESEARCH GENETICS. It
should be noted that Benco Soares is generating a small number of
additional specialized non-redundant arrays of BMAP cDNAs whose

availability will be considered under appropriate and limited collaborative arrangements. The following repetitive elements were found in this cDNA sequence: 119-174, >(CA)n#Simple_repeat
Seq primer: M13 Reverse.

FEATURES

source

Location/Qualifiers

1..311

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UI-M-BH2.2-aeov-d-07-0-UI"

/clone_1lb="NIH_BMAP_MBG_N"

/dev_stage="27-32 days"

/lab_host="DH10B (Life Technologies)"

/note="Vector: pRT3D-Pac (Pharmacia) with a modified

polylinker; Site_1: Not I; Site_2: Eco RI; The

NIH_BMAP_MBG_N library is a normalized library constructed

from mouse basal ganglia. The tag is a string of 5

nucleotides present between the Not I site and the

oligo-dT track. The library was constructed as described

by Bonaldo, Lennon and Soares, Genome Research 6: 791-806

, 1996. Tissue provided by Ms. Anne Novakovich,

Zivic-Miller Laboratories."

BASE COUNT

62 a 62 c 116 g 71 t

ORIGIN

Query Match 95.0%; Score 19; DB 10; Length 311;
Best Local Similarity 100.0%; Pred. No. 1e+03;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 2 CGATCGGGGGGGCGAGC 20

Db 217 CGATCGGGGGGGCGAGC 235

RESULT 2

AT005447/c

LOCUS AT005447 429 bp mRNA linear EST 25-MAR-2002

DEFINITION AT005447 POMBO1 Pleurotus ostreatus cDNA clone MFB34-F01, mRNA

sequence.

ACCESSION AT005447

VERSION AT005447.1 GI:13420306

KEYWORDS EST.

SOURCE Oyster mushroom.

ORGANISM Pleurotus ostreatus

REFERENCE Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;

Agaricales; Pleurotaceae; Pleurotus.

1 (bases 1 to 429)

Lee, S. H., Kim, B. G., Kim, K. J., Lee, J. S., Yun, D. W., Hahn, J. H., Kim

, G. H., Lee, K. H., Suh, D. S., Kwon, S. T., Lee, C. S. and Yoo, Y. B.

Comparative Analysis of Sequences Expressed during the

Liquid-Cultured Mycelia and Fruit Body Stages of Pleurotus

ostreatus

Fungal Genet. Biol. 35 (2), 115-134 (2002)

JOURNAL

MEDLINE

COMMENT

CONTACT: Beom-Gi Kim

21838665

Division of Applied Microbiology

Institute of Agricultural Science and Technology (NIASST)

249 Seodundong Kweonseonku, Suwon 441707, Korea

Tel: 82-331-290-0347

Fax: 82-331-290-0399

Email: bkimyes@da.go.kr

Submitted through BRIC(Biological Research Information Center) of

Korea

URL: http://bric.postech.ac.kr/

Genemuri No. KS105130.

Location/Qualifiers

1..429

/organism="Pleurotus ostreatus"

/cultivar="ASI 2029"

/db_xref="taxon:5322"

/clone="MFB34-F01"

/clone_1lb="POMBO1"

/dev_stage="mature fruiting body"

/lab_host="E.coli"

/note="Vector: lambda Triplex2; Site_1: SfiI; Site_2:

SfiBI; average insert size:1500 bp; initial pfu:5 * 10⁷;

Isolation of total RNA from the mature fruiting body

cultivated in poplar tree sawdust bottle.

BASE COUNT

101 a 135 c 92 g 101 t

ORIGIN

Query Match 95.0%; Score 19; DB 9; Length 429;
Best Local Similarity 100.0%; Pred. No. 9.9e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCGATCGGGGGGGCGAG 19

Db 119 TCGATCGGGGGGGCGAG 101

RESULT 3

AM122220/c

LOCUS AM122220 375 bp mRNA linear EST 22-OCT-1999

DEFINITION UI-M-BH2.2-aeov-d-07-0-UI.51 NIH_BMAP_M.S3.2 Mus musculus cDNA clone

UI-M-BH2.2-aeov-d-07-0-UI 3', mRNA sequence.

ACCESSION AM122220.1 GI:6097683

VERSION EST.

KEYWORDS house mouse.

SOURCE Mus musculus

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

MEDLINE

COMMENT

CONTACT: Chin, H

97044477

National Institute of Mental Health

6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD

20892-9643, USA

Tel: 301 443 1706

Fax: 301 443 9890

Email: mestr@mail.nih.gov

Oligo-dT track not found, Not I site shown in beginning of sequence

is likely internal to the message. cDNA library Preparation: M.B.

Soares Lab Clone distribution: NIH BMAP cDNA clones will be made

available by the means that is soon to be determined. When NIH

determines the means for distribution of the BMAP cDNA clones, this

record will be updated accordingly when that means is determined.

The following repetitive elements were found in this cDNA sequence:

192-247, >(CA)n#Simple_repeat

Seq primer: M13 Forward

POLYA-No.

Location/Qualifiers

1..375

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UI-M-BH2.2-aeov-d-07-0-UI"

/clone_1lb="NIH_BMAP_M.S3.2"

/dev_stage="27-32 days"

/lab_host="DH10B (Life Technologies)"

/note="Vector: pRT3D-Pac (Pharmacia) with a modified

polylinker; Site_1: Not I; Site_2: Eco RI; The

NIH_BMAP_M.S3.2 library is a subtraced library of a

series, ultimately derived from a mixture of individually

tagged normalized libraries from ten regions of the mouse

brain (cerebellum, brain stems, olfactory bulbs,

hypothalamus, cortex, amygdala, basal ganglia, pineal

gland, striatum, hippocampus) after a series of

subtractions to reduce the representation of cDNAs from

which ESTs had already been generated. The following

serially subtraced libraries were generated in this

process: NIH_BMAP_M.S3.2, NIH_BMAP_M.S2, NIH_BMAP_M.S1.

The subcloned library (NIH.BMAP.M.S3.2) was constructed as follows: pCpampamplified cDNA inserts from NIH.BMAP.M.S2 clones from which 3' ESTs had been derived was used as a driver in a hybridization with the NIH.BMAP.M.S2 library in the form of single-stranded circles. The remaining single-stranded circles (subtracted library) was purified by hydroxyapatite column chromatography, converted to double-stranded circles and electroporated into DH10B bacteria (Life Technologies) to generate the NIH.BMAP.M.S3.2 library. This procedure has been previously described (Bonaldi, Lennon and Soares, Genome Research 6:791-806, 1996)

TAG.LIB-NIH.BMAP.M.S3.2
TAG.TISSUE-cerebellum
TAG.SEO-gactc*

BASE COUNT	87 a	136 c	77 g	75 t
ORIGIN				

Query Match	87.0%;	Score 17.4;	DB 10;	Length 375;
Best Local Similarity	94.7%;	Pred. No. 3.9e+03;		
Matches 18; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

Qy	2	CGATCGGGGGGGGGCGAGC	20
Db	100	CGAGCGGGGGGGGGCGAGC	82

RESULT 4	
A1846527/c	
LOCUS	379 bp mRNA linear EST 15-JUL-1999
DEFINITION	UI-M-A1-a-f-f-04-0-UI.s1 NIH_BMAP_MBG.N mus musculus cDNA clone
ACCESSION	U1-M-A1-a-f-f-04-0-UI 3', mRNA sequence.
	AY046527

VERSION	AI846527.1	GI:54904333
KEYWORDS	EST.	
SOURCE	house mouse,	
ORGANISM	Mus musculus	

REFERENCE
AUTHORS
TITLE

Bukayayota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Mus
1 (phases 1 to 375)
Bonaldo, M.F., Lennon, G. and Soares, M.B.
Normalization and subcription: two approaches to facilitate gene

JOURNAL Genome Res. 6 (9), 791-806 (1996)
MEDLINE 97044477
COMMENT Contact: Chin, H

National Institute of Mental Health
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
20892-9643, USA
Tel: 301 443 1706
Fax: 301 443 9890
Email: MEST@mail.nih.gov

Oligo-dT track not found. Not 1 site shown in beginning of sequences
is likely internal to the message. cDNA Library Preparation: M.B.
Soares Lab Clone distribution: NIH BMAP cDNA clones will be made
available by the means that is soon to be determined. When NIH
determines the means for distribution of the BMAP cDNA clones, this
record will be updated accordingly when that means is determined.
The following repetitive elements were found in this cDNA sequence:
192-247. >(CA)n#simple_repeat
Seq primer: M13 Forward
COLYA-No.

FEATURES	Location/Qualifiers
source.	1. .379

```

/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UI-M-AM1-aff-f-04-0-UI"
/clone_1lb="NH.BMAP.MBG.N"
/dev_stage="27-32 days"
/lab_host="DH10B (life technologies)"
/node="Vector: pTV70-Pac (Pharmacia)"
/polylinker="SmaI; Not I; SmaI; Eco RI; The

```

BASE COUNT	89 a	136 c	77 g	77 t
ORIGIN				

Query Match	87.0%;	Score 17.4;	DB 9;	Length 379;
Best Local Similarity	94.7%;	Pred. No. 3.9e+03;		
Matches 18; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

```
QY      2 CGATCGGGCGGGCGAGC 20
          ||| ||||| ||||| |||
Db     100 CGAGCGGGCGGGCGAGC 82
```

LOCUS	AA615769	406 bp	mrna	linear	EST 07-OCT-1997
DEFINITION	AA615769				
	vo2i08.i1	Barstead mouse myotubes	MLRb5	Mus musculus	cDNA clone
	IMAGE:1064679	5' similar to WP:CI6C10.7	CE01498	ZINC FINGER	PROTEIN
	;;	mrna sequence.			

ACCESSION	AA615769
VERSION	AA615769.1
KEYWORDS	GI:2502997
SOURCE	EST.
ORGANISM	house mouse.
	Mus musculus

REFERENCE
AUTHORS

Eukaryota; Metazoa: Chordata; Craniata; Euteleostomi;
Mammalia: Eutheria; Rodentia; Sciurognathi; Muridae; Mus
1 (bases 1 to 406)
Merrit, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.

TITLE	JOURNAL	COMMENT
The WashU-HMI Mouse EST Project	Unpublished (1996)	Contact: Marra M/Mouse EST Project
Geisels, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M., Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B., Rheising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and Waterston, R.		

Masnuf-HHMI Mouse EST Project
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810

Email: mouesest@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.lnl.gov) for further information.
MGI:587039
Seq primer: -28mJ rev2 ET from Amersham
High quality sequence stop: 338.

FEATURES

Source

```

/organism="Mus musculus"
/strain="C3H"
/db_xref="taxon:10090"
/clone_1 IMAGE:1064679"
/clone_1lb "Barstead mouse myotubes MFLRB5"
/cell_line="C2C12"
/lab_host="DH10B"
/note="Vector: pT73D-Pac (Pharmacia) with a modified
polylinker; Site.1: EcoRI; Site.2: NotI; 1st strand cDNA
was primed with a Not I - oligo(dN) primer [5',
TCCTACGATCGAATGGAGAGCCGCCCTTTTTTTTTTTTTTTTTTTT
3']; double-stranded cDNA was ligated to Eco RI adaptors
[AAATCGCATCTTG], digested with Not I and cloned into the
Not I and Eco RI sites of the modified pT73 vector.
Library constructed by Bob Barstead. The C2C12 cell line
[available from ATCC, catalog # CRL-1772] differentiates

```


Query Match 87.0%; Score 17.4; DB 10; Length 437;
 Best Local Similarity 94.7%; Pred. No. 3.9e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGGGCGGCGAGC 20
 DB 168 CGAGCGGGGGCGGCGAGC 186

RESULT 8
 AII94235 448 bp mRNA linear EST 13-OCT-1998
 LOCUS ues2e11.r1 Soares.mammary_gland_NMLMG Mus musculus cDNA clone
 DEFINITION IMAGE:1494764 5' similar to TR:035445 035445 HYPOTHETICAL 19.8 KD
 PROTEIN: ; mRNA sequence.

ACCESSION AII94235.1 GI:3745442
 VERSION AII94235
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 448)
 AUTHORS Mairi, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
 Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
 Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
 Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
 Waterston, R.
 TITLE The WashU-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Maria M/Mouse EST Project
 WashU-HMI Mouse EST Project
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@wustl.edu
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 MGI:932368
 Seq primer: -28ml3 rev2 ET from Amersham.

FEATURES
 Source Location/Qualifiers
 1..448
 /organism="Mus musculus"
 /db_xref="taxon:10090"
 /clone_image="1494764"
 /clone_1bp="Soares.mammary_gland_NMLMG"
 /sex="female (lactating)"
 /tissue_type="mammary gland"
 /lab_host="DH10B"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; 1st strand cDNA was prepared from mammary
 gland tissue from a lactating female, and was then primed
 with a Not I - oligo(dT) primer. Double-stranded cDNA was
 ligated to Eco RI adaptors (Pharmacia), digested with Not
 I and cloned into the Not I and Eco RI sites of the
 modified pT73 vector. Library is normalized. Library
 was constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 90 a 110 c 161 g 87 t

ORIGIN
 Query Match 87.0%; Score 17.4; DB 9; Length 448;
 Best Local Similarity 94.7%; Pred. No. 3.9e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGGGCGGCGAGC 20
 DB 143 CGAGCGGGGGCGGCGAGC 161

RESULT 9
 BE650594 493 bp mRNA linear EST 06-SEP-2000
 LOCUS BE650594

DEFINITION UI-M-BH2.2-rov-d-01-0-UI.r1 NIH_BMAP_M.S3.2 Mus musculus cDNA clone
 UI-M-BH2.2-rov-d-01-0-UI 5', mRNA sequence.
 BE650594
 BE650594.1 GI:9976418

ACCESSION BE650594
 VERSION BE650594.1 GI:9976418
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 1 (bases 1 to 493)
 AUTHORS Bonaldo, M.F., Lennon, G. and Soares, M.B.
 TITLE Normalization and subtraction: two approaches to facilitate gene
 discovery
 JOURNAL Genome Res. 6 (9), 791-806 (1996)
 MEDLINE 97044477
 COMMENT Contact: Chih, H
 National Institute of Mental Health
 6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD
 20892-9643, USA
 Tel: 301 443 1706
 Fax: 301 443 9890
 Email: mestr@mail.nih.gov
 CDNA Library Preparation: M.B. Soares Lab Clone distribution:
 Researchers may obtain BMAP cDNA clones from RESEARCH GENETICS. It
 should be noted that Bento Soares is generating a small number of
 additional specialized non-redundant arrays of BMAP cDNAs whose
 availability will be considered under appropriate and limited
 collaborative arrangements. The following repetitive elements were
 found in this cDNA sequence: 118-173, >(CA)n/simple_repeat
 Seq primer: M13 Reverse.

FEATURES
 Source Location/Qualifiers
 1..493
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="UI-M-BH2.2-rov-d-01-0-UI"
 /clone_1bp="NIH_BMAP_M.S3.2"
 /dev_stage="27-32 days"
 /lab_host="DH10B (Life Technologies)"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; Site 1: Not I; Site 2: Eco RI; The
 NIH_BMAP_M.S3.2 library is a subtracted library of a
 series, ultimately derived from a mixture of individually
 tagged normalized libraries from ten regions of the mouse
 brain (cerebellum, brain stems, olfactory bulbs,
 hypothalamus, cortex, amygdala, basal ganglia, pineal
 gland, striatum, hippocampus) after a series of
 subtractions to reduce the representation of cDNAs from
 which ESTs had already been generated. The following
 serially subtracted libraries were generated in this
 process: NIH_BMAP_M.S3.2, NIH_BMAP_M.S7, NIH_BMAP_M.S1.
 The subtracted library (NIH_BMAP_M.S3.2) was constructed
 as follows: PCR amplified cDNA inserts from NIH_BMAP_M.S2
 clones from which 3' ESTs had been derived was used as a
 driver in a hybridization with the NIH_BMAP_M.S2 library
 in the form of single-stranded circles. The remaining
 single-stranded circles (subtracted library) was purified
 by hydroxyapatite column chromatography, converted to
 double-stranded circles and electroporated into DH10B
 bacteria (Life Technologies) to generate the
 NIH_BMAP_M.S3.2 library. This procedure has been
 previously described (Bonaldo, Lennon and Soares, Genome
 Research 6:791-806, 1996)".

BASE COUNT 99 a 112 c 158 g 124 t

ORIGIN
 Query Match 87.0%; Score 17.4; DB 10; Length 493;
 Best Local Similarity 94.7%; Pred. No. 3.8e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGGGCGGCGAGC 20
 DB 265 CGAGCGGGGGCGGCGAGC 283

RESULT 10
LOCUS BF015640
DEFINITION uy27b02.y1 NCI-CGAP Lu30 Mus musculus cDNA clone IMAGE:3660747 5' similar to TR:035445 035445 HYPOTHETICAL 19.8 KD PROTEIN.; mRNA sequence.
ACCESSION BF015640
VERSION BF015640.1 GI:10746972
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS 1 (bases 1 to 530)
TITLE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
COMMENT National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 Unpublished (1997)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Gilbert Smith, Ph.D.
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov/image/html/resources.shtml>
FEATURES
 source
 MGI:1421515
 Seq primer: -40RP from Glbco
 High quality sequence stop: 457.
 Location/Qualifiers
 1..530
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="3660747"
 /clone_lib="NCI-CGAP_Lu30"
 /tissue_type="tumor, metastatic to mammary"
 /lab_host="DH10B"
 /note="Organ: Lung; Vector: pCMV-SPORT6; Site_1: NotI; Site_2: SalI; transgenic model MMT-1, expression driven by MMTV-LTR enhancer; Cloned unidirectionally. Primer: Oligo dt. Library constructed by Life Technologies.
 Investigator providing samples: Gilbert Smith, NIH"
BASE COUNT 101 a 135 c 179 g 115 t
ORIGIN
 Query Match 87.0%; Score 17.4; DB 12; Length 530;
 Best Local Similarity 94.7%; Pred. No. 3.8e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
DB 2 CGATCGGGCGGGCGGAGC 20
 144 CGAGCGGGCGGGCGGAGC 162
RESULT 11
LOCUS B111370
DEFINITION B111370 . 679 bp mRNA linear EST 26-JUN-2001
 602899252P1 NCI-CGAP Mam5 Mus musculus cDNA clone IMAGE:5028924 5', mRNA sequence.
ACCESSION B111370
VERSION B111370.1 GI:14562271
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS 1 (bases 1 to 679)
 NIH-MGC <http://mgc.nci.nih.gov/>.

TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Lothar Hennighausen Ph.D., Robin Humphreys
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Plate: LLM11081 row: h column: 13
 High quality sequence stop: 666.
FEATURES
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 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="5028924"
 /clone_lib="NCI-CGAP_Mam5"
 /tissue_type="tumor, gross tissue"
 /dev_stage="7 months"
 /lab_host="DH10B"
 /note="Organ: mammary; Vector: pCMV-SPORT6; Site_1: SalI; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dt. Library constructed by Life Technologies. Investigators providing samples: Lothar Hennighausen/Robin Humphreys, NIH"
BASE COUNT 126 a 190 c 216 g 146 t 1 others
ORIGIN
 Query Match 87.0%; Score 17.4; DB 13; Length 679;
 Best Local Similarity 94.7%; Pred. No. 3.8e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
DB 2 CGATCGGGCGGGCGGAGC 20
 129 CGAGCGGGCGGGCGGAGC 147
RESULT 12
LOCUS B0445767
DEFINITION B0445767 709 bp mRNA linear EST 29-MAY-2002
 UT-M-ERO-bxm-g-18-0-UT-12 NIH-BMAP-ERO Mus musculus cDNA clone IMAGE:5710121 5', mRNA sequence.
ACCESSION B0445767
VERSION B0445767.1 GI:21248879
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
AUTHORS 1 (bases 1 to 709)
TITLE NIH-MGC <http://mgc.nci.nih.gov/>.
COMMENT National Institutes of Health, Mammalian Gene Collection (MGC)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. James Lin, University of Iowa
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)
 Seq primer: PYX-5.
FEATURES
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 Location/Qualifiers
 1..709
 /organism="Mus musculus"
 /strain="C57BL/6"
 /db_xref="taxon:10090"

/clone="IMAGE:5710121"
 /clone_1lb="NIH_BMAP_ER0"
 /tissue_type="whole brain"
 /dev_stage="embryo 15.5 dpc"
 /lab_host="DH10B (T1 phage resistant)."
 /note="Organ: Brain; Vector: pTX-Asc; Site: 1; EcoR I; Site: 2; Not I; The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806, 1996. Denatured mRNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was size selected according to mRNA size fraction, ligated with EcoR I adaptor, digested with Not I, and then cloned directionally into pTX-Asc vector. The library tag sequence located between the Not I site and the polyA tail, is GTGCGTGGAA. This library was created for the University of Iowa Mouse Brain Molecular Anatomy Project (BMAP). 'Gene discovery in the Developing Mouse Nervous System', supported by National Institutes of Mental Health (NIMH), Hemm Chin, Ph.D., program coordinator."

BASE COUNT 131 a 201 c 211 g 164 t 2 others

ORIGIN

Query Match 87.0%; Score 17.4; DB 14; Length 709;
 Best Local Similarity 94.7%; Pred. No. 3.8e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGCGGGCGGCGAGC 20
 ||| ||||| ||||| |||||
 90 CGAGCGGGCGGGCGGCGAGC 108

Db

RESULT 13
 B0444735 735 bp mRNA linear EST 29-MAY-2002
 LOCUS UI-M-ERO-bxm-b-21-0-UI.r1 NIH_BMAP_ER0 Mus musculus cDNA clone
 DEFINITION IMAGE:5710148 5', mRNA sequence.
 ACCESSION B0444735
 VERSION B0444735.1 GI:21247847
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE
 AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 JOURNAL NIH-MGC http://mgc.nci.nih.gov/.
 COMMENT Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: Dr. James Lin, University of Iowa
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
 http://image.llnl.gov
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES
 source
 Location/Qualifiers
 1..735
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 /strain="C57BL/6"
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 /tissue_type="whole brain"
 /dev_stage="embryo 15.5 dpc"
 /lab_host="DH10B (T1 phage resistant)"
 /note="Organ: Brain; Vector: pTX-Asc; Site: 1; EcoR I; Site: 2; Not I; The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806,

1996. Denatured mRNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was size selected according to mRNA size fraction, ligated with EcoR I adaptor, digested with Not I, and then cloned directionally into pTX-Asc vector. The library tag sequence located between the Not I site and the polyA tail, is GTGCGTGGAA. This library was created for the University of Iowa Mouse Brain Molecular Anatomy Project (BMAP). 'Gene discovery in the Developing Mouse Nervous System', supported by National Institutes of Mental Health (NIMH), Hemm Chin, Ph.D., program coordinator."

BASE COUNT 135 a 205 c 225 g 168 t 2 others

ORIGIN

Query Match 87.0%; Score 17.4; DB 14; Length 735;
 Best Local Similarity 94.7%; Pred. No. 3.8e+03;
 Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGCGGGCGGCGAGC 20
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 90 CGAGCGGGCGGGCGGCGAGC 108

Db

RESULT 14
 B0445216 741 bp mRNA linear EST 29-MAY-2002
 LOCUS UI-M-ERO-bxp-d-17-0-UI.r1 NIH_BMAP_ER0 Mus musculus cDNA clone
 DEFINITION IMAGE:5711200 5', mRNA sequence.
 ACCESSION B0445216
 VERSION B0445216.1 GI:21248328
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus

REFERENCE
 AUTHORS Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 TITLE Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 JOURNAL NIH-MGC http://mgc.nci.nih.gov/.
 COMMENT Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgabs-remail.nih.gov
 Tissue Procurement: Dr. James Lin, University of Iowa
 cDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at:
 http://image.llnl.gov
 This clone was contributed by the Brain Molecular Anatomy Project (BMAP)

FEATURES
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 Location/Qualifiers
 1..741
 /organism="Mus musculus"
 /strain="C57BL/6"
 /db_xref="taxon:10090"
 /clone="IMAGE:5711200"
 /clone_1lb="NIH_BMAP_ER0"
 /tissue_type="whole brain"
 /dev_stage="embryo 15.5 dpc"
 /lab_host="DH10B (T1 phage resistant)"
 /note="Organ: Brain; Vector: pTX-Asc; Site: 1; EcoR I; Site: 2; Not I; The library was constructed according to Bonaldo, Lennon and Soares, Genome Research, 6:791-806,

1996. Denatured mRNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with an oligo-dT primer containing a Not I site. Double stranded cDNA was size selected according to mRNA size fraction, ligated with EcoR I adaptor, digested with Not I, and then cloned directionally into pTX-Asc vector. The library tag sequence located between the Not I site and the polyA tail, is GTGCGTGGAA. This library was created for the

University of Iowa Mouse Brain Molecular Anatomy Project
(BMAP): 'Gene Discovery in the Developing Mouse Nervous System', supported by National Institutes of Mental Health (NIMH), Hemlin Chln, Ph.D., program coordinator."

BASE COUNT 133 a 202 c 224 g 179 t 3 others
ORIGIN

Query Match 87.0%; Score 17.4; DB 14; Length 741;
Best Local Similarity 94.7%; Pred. No. 3.8e+03;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGCGGGCGGAGC 20
DB 129 CGAGCGGGCGGGCGGAGC 147

RESULT 15

LOCUS B1146925 764 bp mRNA linear EST 05-JUL-2001
DEFINITION 602911551P1 NCI_CGAP_L19 Mus musculus cDNA clone IMAGE:5052660 5',

RNA sequence.

B1146925

ACCESSION B1146925.1 GI:14606926

VERSION

KEYWORDS

SOURCE

ORGANISM

house mouse.
Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 764)

NIH-MGC http://mgs.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: c9apbs-remail.nih.gov

Tissue Procurement: Jeffrey E. Green, M.D.

CDNA Library Preparation: Life Technologies, Inc.

CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1AM1143 row: e column: 13

High quality sequence stop: 741.

Location/Qualifiers

1..764

/organism="Mus musculus"

/strain="FVB/N"

/db_xref="taxon:10090"

/clone="IMAGE:5052660"

/clone_lib="NCI_CGAP_L19"

/lab_host="DH10B (TI phage-resistant)"

/note="Organ: liver; Vector: pCMV-SPORT6; Site_1: NotI;

Site_2: SalI; Cloned unidirectionally. Primer: Oligo dt.

Average insert size 1.9 kb. Constructed by Life

Technologies. Note: this is a NCI_CGAP library."

BASE COUNT

ORIGIN

Query Match 87.0%; Score 17.4; DB 13; Length 764;

Best Local Similarity 94.7%; Pred. No. 3.8e+03;

Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 CGATCGGGCGGGCGGAGC 20
DB 115 CGAGCGGGCGGGCGGAGC 133

Search completed: June 26, 2003, 22:12:31
Job time : 1533.13 secs

GenCore version 5.1.6.
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 10:58:25 ; Search time 30.2174 Seconds
(Without alignments)
202,980 Million cell updates/sec

Title: US-09-355-254f-13

Perfect score: 1 tgcagattgcgaattcga 20

Scoring table: IDENTITY_NDC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued_Patents.NA.*

1: /cgn2_6/ptodata/1/ina/5A.COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B.COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCrus.COMB.seq.*
6: /cgn2_6/ptodata/1/ina/Backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	4	US-09-021-247-7
2	20	100.0	20	4	US-09-021-247-7
3	20	100.0	20	4	US-09-425-798-15
4	20	100.0	20	4	US-09-425-798-15
5	14.8	74.0	653	4	US-08-998-416-1111
6	14.8	74.0	653	4	US-08-998-416-1111
7	14.4	72.0	49	1	US-07-601-094-5
8	14.4	72.0	49	1	US-07-601-094-5
9	14.4	72.0	49	1	US-08-012-735-5
10	14.4	72.0	49	1	US-08-012-735-5
11	14.2	71.0	522	2	US-08-767-026-1
12	14.2	71.0	522	2	US-08-767-026-1
13	14.2	71.0	857	4	US-08-998-416-558
14	14.2	71.0	857	4	US-08-998-416-558
15	14.2	71.0	1101	4	US-09-210-843-1
16	14.2	71.0	1101	4	US-09-210-843-1
17	14.2	71.0	1800	1	US-08-366-783-1
18	14.2	71.0	1800	1	US-08-366-783-1
19	14.2	71.0	1800	1	US-08-313-098A-1
20	14.2	71.0	1800	1	US-08-313-098A-1
21	14.2	71.0	1800	2	US-08-846-021A-1
22	14.2	71.0	1800	2	US-08-846-021A-1
23	14.2	71.0	1897	6	RE34606-5
24	14.2	71.0	1897	6	RE34606-5
25	14.2	71.0	2115	2	US-08-767-026-3
26	14.2	71.0	2115	2	US-08-767-026-3
27	14.2	71.0	2133	4	US-09-488-744A-3

C 28	14.2	71.0	2133	4	US-09-488-744A-3	Sequence 3, Appl1
C 29	14.2	71.0	2733	2	US-08-846-021A-6	Sequence 6, Appl1
C 30	14.2	71.0	2733	2	US-08-846-021A-6	Sequence 6, Appl1
C 31	14.2	71.0	3183	1	US-08-849-212-3	Sequence 3, Appl1
C 32	14.2	71.0	3183	1	US-08-849-212-3	Sequence 3, Appl1
C 33	14.2	71.0	3546	4	US-09-118-442-14	Sequence 14, Appl1
C 34	14.2	71.0	3546	4	US-09-118-442-14	Sequence 14, Appl1
C 35	14.2	71.0	3546	4	US-09-118-442-15	Sequence 15, Appl1
C 36	14.2	71.0	3546	4	US-09-118-442-15	Sequence 15, Appl1
C 37	14.2	71.0	3546	4	US-09-677-064-14	Sequence 14, Appl1
C 38	14.2	71.0	3546	4	US-09-677-064-14	Sequence 14, Appl1
C 39	14.2	71.0	3546	4	US-09-677-064-15	Sequence 15, Appl1
C 40	14.2	71.0	3546	4	US-09-677-064-15	Sequence 15, Appl1
C 41	14.2	71.0	9578	4	US-08-961-527-127	Sequence 127, App
C 42	14.2	71.0	9578	4	US-08-961-527-127	Sequence 127, App
C 43	14.2	70.0	960	2	US-08-245-511-3	Sequence 3, Appl1
C 44	14.2	70.0	960	2	US-08-245-511-3	Sequence 3, Appl1
C 45	14.2	70.0	960	2	US-08-600-993A-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-09-021-247-7
Sequence 7, Application US/09021247
Patent No. 6225444
GENERAL INFORMATION:
APPLICANT: Shastrou, Victor E.
TITLE OF INVENTION: NEUROPROTECTIVE PEPTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
STREET: 600 Atlantic Avenue
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/021,247
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Van Amsterdam, John R.
REGISTRATION NUMBER: 40,212
REFERENCE/DOCKET NUMBER: N0260/7023
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-720-3500
TELEFAX: 617-720-2441
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 nucleotides
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: oligonucleotide
HYPOTHETICAL: NO
US-09-021-247-7

Query Match 100.0% Score 20; DB 4; Length 20;
Best Local Similarity 100.0% Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCAGATTCGCAATTCGA 20
DB 1 TGCAGATTCGCAATTCGA 20

RESULT 2
US-09-021-247-7/C
; Sequence 7, Application US/09021247
; Patent No. 6225444
; GENERAL INFORMATION:
; APPLICANT: Shashoua, Victor E.
; TITLE OF INVENTION: NEUROPROTECTIVE PEPTIDES AND USES THEREOF
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wolf, Greenfield & Sacks, P.C.
; STREET: 600 Atlantic Avenue
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/021,247
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Van Amsterdam, John R.
; REGISTRATION NUMBER: 40,212
; REFERENCE/DOCKET NUMBER: N0260/7023
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-720-3500
; TELEFAX: 617-720-2441
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: oligonucleotide
; HYPOTHETICAL: NO
; US-09-021-247-7

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCAGATTGCCGCAATCTGCA 20
DB 20 TGCAGATTGCCGCAATCTGCA 1

RESULT 3
US-09-425-798-15
; Sequence 15, Application US/09425798A
; Patent No. 6423493
; GENERAL INFORMATION:
; APPLICANT: Gorenstein Dr., David G.
; APPLICANT: King Dr., David J.
; APPLICANT: Ventura, Daniel A.
; APPLICANT: Brasler Dr., Allan R.
; TITLE OF INVENTION: Combinatorial Selection of Phosphothionate
; FILE REFERENCE: 122144-1005
; CURRENT APPLICATION NUMBER: US/09/425,798A
; CURRENT FILING DATE: 1999-10-25
; PRIOR APPLICATION NUMBER: 60/105,600
; PRIOR FILING DATE: 1999-10-26
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence: aptamer
US-09-425-798-15

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCAGATTGCCGCAATCTGCA 20
DB 1 TGCAGATTGCCGCAATCTGCA 20

RESULT 4
US-09-425-798-15/C
; Sequence 15, Application US/09425798A
; Patent No. 6423493
; GENERAL INFORMATION:
; APPLICANT: Gorenstein Dr., David G.
; APPLICANT: King Dr., David J.
; APPLICANT: Ventura, Daniel A.
; APPLICANT: Brasler Dr., Allan R.
; TITLE OF INVENTION: Combinatorial Selection of Phosphothionate
; FILE REFERENCE: 122144-1005
; CURRENT APPLICATION NUMBER: US/09/425,798A
; CURRENT FILING DATE: 1999-10-25
; PRIOR APPLICATION NUMBER: 60/105,600
; PRIOR FILING DATE: 1999-10-26
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 15
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: aptamer
US-09-425-798-15

Query Match 100.0%; Score 20; DB 4; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.083;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGCAGATTGCCGCAATCTGCA 20
DB 20 TGCAGATTGCCGCAATCTGCA 1

RESULT 5
US-08-998-416-1111
; Sequence 1111, Application US/08998416
; Patent No. 6239264
; GENERAL INFORMATION:
; APPLICANT: Philippaen, Peter
; APPLICANT: Pohlmann, Rainer
; APPLICANT: Steiner, Sabine
; APPLICANT: Mohr, Christine
; APPLICANT: Wendland, Jurgen
; APPLICANT: Knechtle, Philipp
; APPLICANT: Redischung, Corinne
; TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSEYII
; TITLE OF INVENTION: AND USES THEREOF
; NUMBER OF SEQUENCES: 1152
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 6239264artis Corporation
; STREET: 3054 Cornwallis Road
; CITY: Research Triangle Park
; STATE: No. 6239264th Carolina
; COUNTRY: USA
; ZIP: 27709
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS

DB 18 CAGATTGCACATCTG 33
RESULT 8
US-07-601-094-5/C
Sequence 5, Application US/07601094
Patent No. 5215892
GENERAL INFORMATION:
APPLICANT: Kishimoto, Tadamiatsu
APPLICANT: Hirano, Toshio
APPLICANT: Akira, Shizuo
APPLICANT: Ieshiki, Hiroshi
APPLICANT: Tanabe, Osamu
APPLICANT: Kinoshita, Shigeml
APPLICANT: Shimamoto, Takuya
TITLE OF INVENTION: C/EBP2 Gene and Recombinant
TITLE OF INVENTION: C/EBP2
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zinn, Macpeak &
ADDRESS: Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/601,094
FILING DATE: 19901022
CLASSIFICATION: 435
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-07-601-094-5
Query Match 72.0%; Score 14.4; DB 1; Length 49;
Best Local Similarity 93.8%; Pred. No. 80;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 18 CAGATTGCACATCTG 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zinn, Macpeak &
ADDRESS: Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/012,735
FILING DATE: 19930203
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/601,094
FILING DATE: 22 OCT 1990
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
TELEX: 6491103
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-012-735-5
Query Match 72.0%; Score 14.4; DB 1; Length 49;
Best Local Similarity 93.8%; Pred. No. 80;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CAGATTGCACATCTG 18
DB 18 CAGATTGCACATCTG 33
RESULT 10
US-08-012-735-5/C
Sequence 5, Application US/08012735
Patent No. 5360894
GENERAL INFORMATION:
APPLICANT: Kishimoto, Tadamiatsu
APPLICANT: Hirano, Toshio
APPLICANT: Akira, Shizuo
APPLICANT: Ieshiki, Hiroshi
APPLICANT: Tanabe, Osamu
APPLICANT: Kinoshita, Shigeml
APPLICANT: Shimamoto, Takuya
TITLE OF INVENTION: C/EBP2 Gene and Recombinant
TITLE OF INVENTION: C/EBP2
NUMBER OF SEQUENCES: 34
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sughrue, Mion, Zinn, Macpeak &
ADDRESS: Seas
STREET: 2100 Pennsylvania Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: United States
ZIP: 20037-3202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.24
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/012,735
FILING DATE: 19930203

CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/601,094
FILING DATE: 22 OCT 1990
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 293-7060
TELEFAX: (202) 293-7860
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 49 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-012-735-5

Query Match 72.0%; Score 14.4; DB 1; Length 49;
Best Local Similarity 93.8%; Pred. No. 80;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CAGATTGGCAATCTG 18
DB 33 CAGATTGTGCAATCTG 18

RESULT 11
US-08-767-026-1
Sequence 1, Application US/08767026
Patent No. 5856452
GENERAL INFORMATION:
APPLICANT: Moloney, Maurice
APPLICANT: Boothe, Joseph
APPLICANT: van Rooijen, GJ's
TITLE OF INVENTION: Oil Bodies and Associated Proteins as
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BERESKIN & PARR
STREET: 40 King Street West
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5H 3Y2
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/767,026
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gravelle, Michelle
REGISTRATION NUMBER: 40,261
REFERENCE/DOCKET NUMBER: 9369-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 364-7311
TELEFAX: (416) 361-1398
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Oleosin From Arabidopsis Thaliana
FEATURE:
NAME/KEY: CDS
LOCATION: 1..522
US-08-767-026-1

Query Match 71.0%; Score 14.2; DB 2; Length 522;
Best Local Similarity 84.2%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 GCAGATTGGCAATCTGCA 20
DB 123 GCAGATTGCTAAGCTGCA 141

RESULT 12
US-08-767-026-1/c
Sequence 1, Application US/08767026
Patent No. 5856452
GENERAL INFORMATION:
APPLICANT: Moloney, Maurice
APPLICANT: Boothe, Joseph
APPLICANT: van Rooijen, GJ's
TITLE OF INVENTION: Oil Bodies and Associated Proteins as
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: BERESKIN & PARR
STREET: 40 King Street West
CITY: Toronto
STATE: Ontario
COUNTRY: Canada
ZIP: M5H 3Y2
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/767,026
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Gravelle, Michelle
REGISTRATION NUMBER: 40,261
REFERENCE/DOCKET NUMBER: 9369-001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 364-7311
TELEFAX: (416) 361-1398
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 522 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Oleosin From Arabidopsis Thaliana
FEATURE:
NAME/KEY: CDS
LOCATION: 1..522
US-08-767-026-1

Query Match 71.0%; Score 14.2; DB 2; Length 522;
Best Local Similarity 84.2%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 TGCAGATTGGCAATCTGC 19
DB 141 TGCAGCTTATGCAATCTGC 123

RESULT 13
US-08-998-416-558
Sequence 558, Application US/08998416
Patent No. 6239264
GENERAL INFORMATION:
APPLICANT: Philippsen, Peter

```

: APPLICANT: Pohlmann, Rainer
: APPLICANT: Steiner, Sabine
: APPLICANT: Mohr, Christine
: APPLICANT: Wendland, Jürgen
: APPLICANT: Knechtle, Philipp
: APPLICANT: Redischung, Corinne
: TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSTYPII
: NUMBER OF SEQUENCES: 1152
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: No. 6239264rtis Corporation
: STREET: 3054 Cornwallis Road
: CITY: Research Triangle Park
: STATE: No. 6239264th Carolina
: COUNTRY: USA
: ZIP: 27709
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/998,416
: FILING DATE: 24-DEC-1997
: CLASSIFICATION: 435
: PRIORITY APPLICATION DATA:
: APPLICATION NUMBER: CH 0016/97
: FILING DATE: 31-DEC-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Meigs, J. Timothy
: REGISTRATION NUMBER: 38,241
: REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 919-541-8587
: TELEFAX: 919-541-8689
: INFORMATION FOR SEQ ID NO: 558:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 857 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: ORIGINAL SOURCE:
: ORGANISM: PAG1387UP
:
: US-08-998-416-558
:
: Query Match
: Best Local Similarity 71.0%; Score 14.2; DB 4; Length 857;
: Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
:
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:      ||||| ||||| ||||| ||
: Db 699 TGCAGCGCGGCGCAATCTGCA 718
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: RESULT 14
: US-08-998-416-558/c
: Sequence 558, Application US/08998416
: Patent No. 6239264
: GENERAL INFORMATION:
: APPLICANT: Philippesen, Peter
: APPLICANT: Pohlmann, Rainer
: APPLICANT: Steiner, Sabine
: APPLICANT: Mohr, Christine
: APPLICANT: Wendland, Jürgen
: APPLICANT: Knechtle, Philipp
: APPLICANT: Redischung, Corinne
: TITLE OF INVENTION: GENOMIC DNA SEQUENCES OF ASHBYA GOSSTYPII
: NUMBER OF SEQUENCES: 1152
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: No. 6239264rtis Corporation
: STREET: 3054 Cornwallis Road
```

```

: CITY: Research Triangle Park
: STATE: No. 6239264th Carolina
: COUNTRY: USA
: ZIP: 27709
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/998,416
: FILING DATE: 24-DEC-1997
: CLASSIFICATION: 435
: PRIORITY APPLICATION DATA:
: APPLICATION NUMBER: CH 0016/97
: FILING DATE: 31-DEC-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Meigs, J. Timothy
: REGISTRATION NUMBER: 38,241
: REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 919-541-8587
: TELEFAX: 919-541-8689
: INFORMATION FOR SEQ ID NO: 558:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 857 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: ORIGINAL SOURCE:
: ORGANISM: PAG1387UP
:
: US-08-998-416-558
:
: Query Match
: Best Local Similarity 71.0%; Score 14.2; DB 4; Length 857;
: Matches 16; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
:
: Oy 1 TGCAGATTGCCGCAATCTGCA 20
:      ||||| ||||| ||||| ||
: Db 718 TGTAGATTGCCGCGCNGCTGCA 699
:
: RESULT 15
: US-09-210-843-1
: Sequence 1, Application US/09210843
: Patent No. 6288304
: GENERAL INFORMATION:
: APPLICANT: Moloney, Maurice M.
: APPLICANT: Habibi, Hamid R.
: TITLE OF INVENTION: Expression of Somatotropin in Plant Seeds
: FILE REFERENCE: 9369-69
: CURRENT APPLICATION NUMBER: US/09/210,843
: CURRENT FILING DATE: 1998-12-15
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: Patentin Ver. 2.0
: SEQ ID NO 1
: LENGTH: 1101
: TYPE: DNA
: ORGANISM: synthetic construct
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: US-09-210-843-1
:
: Query Match
: Best Local Similarity 71.0%; Score 14.2; DB 4; Length 1101;
: Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
:
: Oy 2 GCAGATTGCCGCAATCTGCA 20
:      ||||| ||||| ||||| ||
: Db 123 GCAGATTGCTAAAGCTGCA 141
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

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Title: US-09-355-254f-13

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Gapop 10.0 , Gapext 1.0

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

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2: em_esthum:*
3: em_estlin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
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8: em_hic:*
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16: em_estom:*
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27: em_gss_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the change being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16.8	84.0	421	10	AM440244
2	16.8	84.0	421	10	AM440244
3	16.8	84.0	421	10	AM440244
4	16.8	84.0	421	10	AM440244
5	16.8	84.0	421	10	AM440244
6	16.8	84.0	421	10	AM440244

7	16.4	82.0	478	17	BH372378
8	16.4	82.0	478	17	BH372378
9	16.4	82.0	478	17	BH372378
10	15.8	79.0	266	17	AZ553458
11	15.8	79.0	266	17	AZ553458
12	15.8	79.0	269	9	AI913095
13	15.8	79.0	269	9	AI913095
14	15.8	79.0	301	10	BB071586
15	15.8	79.0	301	10	BB071586
16	15.8	79.0	393	14	BU026495
17	15.8	79.0	393	14	BU026495
18	15.8	79.0	424	13	BM146790
19	15.8	79.0	424	13	BM146790
20	15.8	79.0	463	17	AO176460
21	15.8	79.0	463	17	AO176460
22	15.8	79.0	520	10	AM447996
23	15.8	79.0	520	10	AM447996
24	15.8	79.0	520	14	BO605683
25	15.8	79.0	520	14	BO605683
26	15.8	79.0	633	12	BS658188
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28	15.8	79.0	724	17	AG184160
29	15.8	79.0	724	17	AG184160
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31	15.8	79.0	928	14	BO731879
32	15.8	79.0	1157	11	AK020226
33	15.8	79.0	1157	11	AK020226
34	15.4	77.0	242	12	BF554724
35	15.4	77.0	242	12	BF554724
36	15.4	77.0	367	12	BF004180
37	15.4	77.0	367	12	BF004180
38	15.4	77.0	404	9	AI363420
39	15.4	77.0	404	9	AI363420
40	15.4	77.0	481	17	B97611
41	15.4	77.0	481	17	B97611
42	15.4	77.0	501	10	BE240794
43	15.4	77.0	501	10	BE240794
44	15.4	77.0	610	10	AW773826
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ALIGNMENTS

RESULT 1
AM440244
LOCUS
DEFINITION
AM440244
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

human.

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

AM440244 421 bp mRNA linear EST 14-FEB-2000
XU42H12.X1 NCI-CGAP_HN9 Homo sapiens CDNA clone IMAGE:2804423 3'
Similar to contigals LI.t2 LI repetitive element ;, mRNA sequence.
AM440244.1 GI:6975550
EST.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Unpublished (1997)
Tumor Gene Index
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Edward Shillito Ph.D., Silvio Gutkind Ph.D.,
Chidchanok Leethanakul D.D.S., Michael Emmert-Buck M.D. Ph.D.
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/dbp/image/image.html
Possible reversed clone: polyT not found

Seq primer: -400P from GIBCO.
Location/Qualifiers

FEATURES
source

1. .421
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2804423"
/clone_lib="NCI_CGAP_HN9"
/tissue_type="normal squamous epithelium from retromolar trigone"
/lab_host="DH10B"
/note="Vector: PAMPI0: cDNA made by oligo-dT priming. Non-directionally cloned into the UDG sites of PAMPI0. Size-selected on agarose gel, average insert size 500 bp. Primary library; non-amplified. CDNA Library Preparation: David B. Krizman, Ph.D (NCI). Reference: Krizman et al. (1996) Cancer Research 56:5380-5383."
BASE COUNT
159 a 88 c 81 g 93 t
ORIGIN

Query Match 84.0%; Score 16.8; DB 10; Length 421;
Best Local Similarity 90.0%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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125 TGCAGATTGCCCAATCTGCA 144

RESULT 2
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LOCUS x042h12.x1 NCI_CGAP_HN9 Homo sapiens cDNA clone IMAGE:2804423 3
DEFINITION similar to contig L1.t2 L1 repetitive element ;, mRNA sequence.
ACCESSION AM440244
VERSION AM440244.1 GI:6975550
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS 1 (bases 1 to 421)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Edward Shillitoe Ph.D., Silvio Gutkind Ph.D., Chidchanok Leethanakul D.D.S., Michael Emmert-Buck M.D. Ph.D.
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/ILNI at: www-bio.llnl.gov/dbtrp/image/image.html
Possible reversed clone: polyT not found
Seq primer: -400P from GIBCO.
Location/Qualifiers

FEATURES
source

1. .421
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2804423"
/clone_lib="NCI_CGAP_HN9"
/tissue_type="normal squamous epithelium from retromolar trigone"
/lab_host="DH10B"
/note="Vector: PAMPI0: cDNA made by oligo-dT priming. Non-directionally cloned into the UDG sites of PAMPI0. Size-selected on agarose gel, average insert size 500 bp. Primary library; non-amplified. CDNA Library Preparation: David B. Krizman, Ph.D (NCI). Reference: Krizman et al. (1996) Cancer Research 56:5380-5383."
BASE COUNT
159 a 88 c 81 g 93 t
ORIGIN

BASE COUNT 159 a 88 c 81 g 93 t
ORIGIN

Query Match 84.0%; Score 16.8; DB 10; Length 421;
Best Local Similarity 90.0%; Pred. No. 5.9e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 TGCAGATTGCCCAATCTGCA 20
125 TGCAGATTGCCCAATCTGCA 144

RESULT 3
A0696464 456 bp DNA linear GSS 06-JUL-1999
LOCUS HS_5518_A2.D04.SP6E.RPCI-11 Human Male BAC Library Homo sapiens
DEFINITION genomic clone Plate-1094 Col-8 Row-G, DNA sequence.
ACCESSION A0696464
VERSION A0696464.1 GI:5386712
KEYWORDS GSS.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS 1 (bases 1 to 456)
Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T., Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and Hood, L.
TITLE Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
JOURNAL MEDLINE
COMMENT Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pater de Jong (paterdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm) or from Resear h Genetics (info@resgen.com). BAC end Web Server: <http://www.htsc.washington.edu>
Plate: 1094 row: G column: 8
Seq primer: SP6
Class: BAC ends
High quality sequence stop: 456.
Location/Qualifiers

FEATURES
source

1. .456
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="Plate-1094 Col-8 Row-G"
/clone_lib="RPCI-11 Human Male BAC Library"
/sex="Male"
/note="Vector: PACE3.6; Site.1: EcoRI; Site.2: EcoRI; Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the PACE3.6 vector at EcoRI sites"
BASE COUNT
142 a 92 c 103 g 118 t
ORIGIN

Query Match 84.0%; Score 16.8; DB 17; Length 456;
Best Local Similarity 90.0%; Pred. No. 6.1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 TGCAGATTGCCCAATCTGCA 20
365 TGCAGATTGCCCAATCTGCA 384

RESULT 4										
AO696464/c	AO696464	456 bp	DNA	linear	GSS 06-JUL-1999					
DEFINITION	HS_5318_A2_D04.SP6E RPCR-11 Human Male BAC Library Homo sapiens genomic clone Plate-1094 Col-8 Row-G, DNA sequence.									
ACCESSION	AO696464									
VERSION	AO696464.1	GI:5386712								
KEYWORDS	GSS.									
SOURCE	human.									
ORGANISM	Homo sapiens									
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.									
AUTHORS	1 (bases 1 to 456) Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T., Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and Hood,L.									
TITLE	Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome									
JOURNAL	Proc. Natl. Acad. Sci. U.S.A.	96 (17),	9739-9744	(1999)						
MEDLINE	99380589									
COMMENT	Contact: Mahairas GG, Wallace JC, Hood L High Throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallaceu.washington.edu Clones are derived from the human BAC library RPCR-11. For BAC library availability, please contact Plietier de Jong (plieterdejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm) or from Resear h Genetics (info@resgen.com). BAC end Web Server: http://www.htsc.washington.edu Plate: 1094 row: G column: 8 Seq primer: SP6 Class: BAC ends High quality sequence stop: 456.									
FEATURES	Location/Qualifiers									
SOURCE	1..456 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="Plate-1094 Col-8 Row-G" /clone_lib="RPCR-11 Human Male BAC Library" /sex="male" /note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI; Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRII. Methylation. Size selected DNA was cloned into the pBACe3.6 vector at EcoRI sites"									
BASE COUNT	142 a	92 c	103 g	118 t	1 others					
ORIGIN										
Query Match	84.0%	Score 16.8;	DB 17;	Length 456;						
Best Local Similarity	90.0%;	Pred. No. 6.1e+02;								
Matches	18;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;					
OY	1	TCGAGATTGGCAATCTGCA	20							
DB	384	TCGAGATTGGCAATCTGCA	365							
LOCUS	BH381085									
DEFINITION	AG-ND-157122.TF ND-TAM Anopheles gambiae genomic clone AG-ND-157122 , DNA sequence.									
ACCESSION	BH381085									
VERSION	BH381085.1	GI:17327227								
KEYWORDS	GSS.									
SOURCE	African malaria mosquito.									
ORGANISM	Anopheles gambiae									
	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicoidae;									

REFERENCE	AUTHORS	TITLE	JOURNAL	COMMENT
1 (bases 1 to 380)	Shetty,J., Malek,J., Koo,H., Collins,F., Gardner,M. and Loftus,B.J.	Direct Submission of BAC-end sequences from Anopheles gambiae unpublished (2001)		
Other_GSSs:	AG-ND-157122.TR	Contact: Brendan J Loftus		
	The Institute of Eukaryotic Genomics			
	9712 Medical Center Dr., Rockville, MD 20850, USA			
	Tel: 301 838 0208			
	Fax: 301 838 3543			
	Email: b.loftus@tigr.org			
	This clone is from an A. gambiae BAC library (ND-TAM) provided by F.H. Collins and sequenced by The Institute for Genomic Research (TIGR). The BAC library was generated from A. gambiae PEST strain DNA. All DNA was extracted from newly hatched first instar larvae to minimize the inclusion of DNA from microorganisms that inhabit the gut. The DNA is derived from mixed sexes of larvae. The BAC library was constructed at Texas A&M University BAC Center University, College Station, Texas 77843-2123, USA using a HindIII partial digest.			
	Seq primer: M13 For			
	Class: BAC ends.			
FEATURES	Location/Qualifiers			
source	1..380			
	/organism="Anopheles gambiae"			
	/strain="PEST"			
	/db_xref="taxon:7165"			
	/clone="AG-ND-157122"			
	/clone_1lb="ND-TAM"			
	/note="Vector: pCIBAC1; Site_1: HindIII"			
BASE COUNT	69 a 111 c 119 g 81 t			
ORIGIN				
Query Match	82.0% Score 16.4 DB 17 Length 380;			
Best Local Similarity	94.4% Pred. No. 8.9e+02;			
Matches 17/	Conservative 0; Mismatches 1; Indels 0; Gaps 0;			
QY	3 CAGATTGGCAGATCTGCA 20			
Db	280 CAGATTCGGCAGATCTGCA 297			
RESULT 6				
BH381085/c	380 bp DNA linear GSS 10-DEC-2001			
LOCUS	AG-ND-157122.TR ND-TAM Anopheles gambiae genomic clone AG-ND-157122			
DEFINITION	, DNA sequence.			
ACCESSION	BH381085			
VERSION	BH381085.1 GI:17327227			
KEYWORDS	GSS.			
SOURCE	African malaria mosquito.			
ORGANISM	Anopheles gambiae			
	Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Prexygota;			
	Neoptera; Endopterygota; Diptera; Nematocera; Culicoidae;			
	Anopheles.			
REFERENCE	1 (bases 1 to 380)			
AUTHORS	Shetty,J., Malek,J., Koo,H., Collins,F., Gardner,M. and Loftus,B.J.			
TITLE	Direct Submission of BAC-end sequences from Anopheles gambiae unpublished (2001)			
JOURNAL	Other_GSSs: AG-ND-157122.TR			
COMMENT	Contact: Brendan J Loftus			
	The Institute of Eukaryotic Genomics			
	9712 Medical Center Dr., Rockville, MD 20850, USA			
	Tel: 301 838 0208			
	Fax: 301 838 3543			
	Email: b.loftus@tigr.org			
	This clone is from an A. gambiae BAC library (ND-TAM) provided by F.H. Collins and sequenced by The Institute for Genomic Research (TIGR). The BAC library was generated from A. gambiae PEST strain DNA. All DNA was extracted from newly hatched first instar larvae to minimize the inclusion of DNA from microorganisms that inhabit the gut. The DNA is derived from mixed sexes of larvae. The BAC library was constructed at Texas A&M University BAC Center University, College Station, Texas 77843-2123, USA using a HindIII partial digest.			
	Seq primer: M13 For			
	Class: BAC ends.			

to minimize the inclusion of DNA from microorganisms that inhabit the gut. The DNA is derived from mixed sexes of larvae. The BAC library was constructed at Texas A&M University BAC Center University, College Station, Texas 77843-2123, USA using a HindIII partial digest.

Seq primer: M13 For
Classes: BAC ends.

FEATURES
source
Location/Qualifiers

1..380
/organism="Anopheles gambiae"
/strain="PEST"
/db_xref="taxon:7165"
/clone="AG-ND-157122"
/clone_11b="ND-TAM"
/note="Vector: pECBAC1; Site_1: HindIII"

BASE COUNT
69 a 111 c 119 g 81 t

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 17; Length 380;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY
1 TGCAGATTGCCAATCTG 18
|||||
DB 297 TGCAGATTGCCAATCTG 280

RESULT 7
BH372378
LOCUS
DEFINITION BH372378 478 bp DNA linear GSS 10-DEC-2001
AG-ND-101M20.TF ND-TAM Anopheles gambiae genomic clone AG-ND-101M20
, DNA sequence.

ACCESSION
VERSION BH372378.1 GI:17318503
KEYWORDS
SOURCE
ORGANISM
African malaria mosquito.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
1 (bases 1 to 478)
Shetty,J., Malek,J., Koo,H., Collins,F., Gardner,M. and Loftus,B.J.
Direct Submission of BAC-end sequences from Anopheles gambiae
Unpublished (2001)
Other_GSSs: AG-ND-101M20.TF
Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0208
Fax: 301 838 3543
Email: b.loftus@tigr.org

This clone is from an A. gambiae BAC library (ND-TAM) provided by F.H. Collins and sequenced by The Institute for Genomic Research (TIGR). The BAC library was generated from A. gambiae PEST strain DNA. All DNA was extracted from newly hatched first instar larvae to minimize the inclusion of DNA from microorganisms that inhabit the gut. The DNA is derived from mixed sexes of larvae. The BAC library was constructed at Texas A&M University BAC Center University, College Station, Texas 77843-2123, USA using a HindIII partial digest.
Seq primer: M13 For
Classes: BAC ends.

FEATURES
source
Location/Qualifiers

1..478
/organism="Anopheles gambiae"
/strain="PEST"
/db_xref="taxon:7165"
/clone="AG-ND-101M20"
/clone_11b="ND-TAM"
/note="Vector: pECBAC1; Site_1: HindIII"

BASE COUNT
153 a 109 c 123 g 93 t

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 17; Length 478;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY
3 CAGATTGCCAATCTGCA 20
|||||
DB 17 CCGATTGCCAATCTGCA 34

RESULT 8
BH372378/c
LOCUS
DEFINITION BH372378/c 478 bp DNA linear GSS 10-DEC-2001
AG-ND-101M20.TF ND-TAM Anopheles gambiae genomic clone AG-ND-101M20
, DNA sequence.

ACCESSION
VERSION BH372378.1 GI:17318503
KEYWORDS
SOURCE
ORGANISM
African malaria mosquito.

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
1 (bases 1 to 478)
Shetty,J., Malek,J., Koo,H., Collins,F., Gardner,M. and Loftus,B.J.
Direct Submission of BAC-end sequences from Anopheles gambiae
Unpublished (2001)
Other_GSSs: AG-ND-101M20.TF
Contact: Brendan J Loftus
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0208
Fax: 301 838 3543
Email: b.loftus@tigr.org

This clone is from an A. gambiae BAC library (ND-TAM) provided by F.H. Collins and sequenced by The Institute for Genomic Research (TIGR). The BAC library was generated from A. gambiae PEST strain DNA. All DNA was extracted from newly hatched first instar larvae to minimize the inclusion of DNA from microorganisms that inhabit the gut. The DNA is derived from mixed sexes of larvae. The BAC library was constructed at Texas A&M University BAC Center University, College Station, Texas 77843-2123, USA using a HindIII partial digest.
Seq primer: M13 For
Classes: BAC ends.

FEATURES
source
Location/Qualifiers

1..478
/organism="Anopheles gambiae"
/strain="PEST"
/db_xref="taxon:7165"
/clone="AG-ND-101M20"
/clone_11b="ND-TAM"
/note="Vector: pECBAC1; Site_1: HindIII"

BASE COUNT
153 a 109 c 123 g 93 t

Query Match
Best Local Similarity 94.4%; Score 16.4; DB 17; Length 478;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY
1 TGCAGATTGCCAATCTG 18
|||||
DB 34 TGCAGATTGCCAATCTG 17

RESULT 9
A2553458
LOCUS
DEFINITION A2553458 266 bp DNA linear GSS 20-NOV-2000
RPC1-23-211A16.TV RPC1-23 Mus musculus genomic clone RPC1-23-211A16
, DNA sequence.

ACCESSION
VERSION A2553458.1 GI:11233049

KEYWORDS
SOURCE house mouse.
ORGANISM Mus musculus

REFERENCE
AUTHORS Zhao, S., Nierman, W., Feldblum, T., Malek, J., Shatsman, S., Akhmet, B., Levins, M., McGann, S., Tsegaye, G., Geer, K., Krol, M., de Jong, P., and Fraser, C.M.
Mouse BAC End Sequences from Library RPCI-23
Unpublished (1999)

TITLE
JOURNAL Other-GSSs: RPCI-23-211A16.TU
COMMENT Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: szhao@tigr.org
Clones are derived from the mouse BAC library RPCI-23. For BAC library availability, please contact Pieter de Jong (pieter@tigr.org, med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/orderingframe.htm>) or from Resea ch Genetics (info@resgen.com). BAC end page: http://www.tigr.org/tdb/bac-ends/mouse/bac_end_intro.html
Plate: 211 row: A column: 16
Seq primer: T7
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..266
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="RPCI-23-211A16"
/clone_1lb="RPCI-23"
/sex="Female"
/lab_host="DH10B"
/note="Organ: Kidney/Brain; Vector: pBACe3.6; Site:1; EcoRI; Site:2; EcoRI; Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACe3.6 vector at the EcoRI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)."
BASE COUNT 88 a 49 c 40 g 89 t
ORIGIN

Query Match 79.0%; Score 15.8; DB 17; Length 266;
Best Local Similarity 89.5%; Pred. No. 1.5e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY
2 GCAGATTGGCAGATCTGCA 20
||||| 11 |||||||
12 GCAGATGCGCAATCTGCA 30

Db
2 GCAGATTGGCAGATCTGCA 20
||||| 11 |||||||
12 GCAGATGCGCAATCTGCA 30

RESULT 10
A2553458 266 bp DNA linear GSS 20-NOV-2000
LOCUS RPCI-23-211A16.TV RPCI-23 Mus musculus genomic clone RPCI-23-211A16
DEFINITION
ACCESSION A2553458
VERSION A2553458
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 266)
Zhao, S., Nierman, W., Feldblum, T., Malek, J., Shatsman, S., Akhmet, B., Levins, M., McGann, S., Tsegaye, G., Geer, K., Krol, M., de Jong, P., and Fraser, C.M.
Mouse BAC End Sequences from Library RPCI-23

JOURNAL
COMMENT Unpublished (1999)
Other-GSSs: RPCI-23-211A16.TU
Contact: Shaying Zhao
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850, USA
Tel: 301 838 0200
Fax: 301 838 0208
Email: szhao@tigr.org
Clones are derived from the mouse BAC library RPCI-23. For BAC library availability, please contact Pieter de Jong (pieter@tigr.org, med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/orderingframe.htm>) or from Resea ch Genetics (info@resgen.com). BAC end page: http://www.tigr.org/tdb/bac-ends/mouse/bac_end_intro.html
Plate: 211 row: A column: 16
Seq primer: T7
Class: BAC ends.

FEATURES
source Location/Qualifiers
1..266
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="RPCI-23-211A16"
/clone_1lb="RPCI-23"
/sex="Female"
/lab_host="DH10B"
/note="Organ: Kidney/Brain; Vector: pBACe3.6; Site:1; EcoRI; Site:2; EcoRI; Female C57BL/6J mouse kidney and/or brain genomic DNA was isolated and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACe3.6 vector at the EcoRI sites. The ligation products were transformed into DH10B electrocompetent cells (BRL Life Technologies)."
BASE COUNT 88 a 49 c 40 g 89 t
ORIGIN

Query Match 79.0%; Score 15.8; DB 17; Length 266;
Best Local Similarity 89.5%; Pred. No. 1.5e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY
1 TGCAGATTGGCAGATCTGC 19
||||| 11 |||||||
30 TGCAGATTGGCAGATCTGC 12

Db
30 TGCAGATTGGCAGATCTGC 12

RESULT 11
A1913095 269 bp mRNA linear EST 16-DEC-1999
LOCUS t288a12.x1 NCI-CGAP_K1d11 Homo sapiens cdna clone IMAGE:2295646 3', mRNA sequence.
ACCESSION A1913095
VERSION A1913095.1 GI:5632950
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 269)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskalkuk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/TLNT at: www-bio.llnl.gov/dbp/image/image.html

Insert Length: 527 Std Error: 0.00
Seq primer: -400P from GIBCO
High quality sequence stop: 246.
Location/Qualifiers

FEATURES

1..269

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2295646"
/clone_1lb="NCI_CGAP_K1d11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker. Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_K1d3 was prepared, and 88 circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonoids 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 29 a 104 c 91 g 45 t

ORIGIN

Query Match 79.0%; Score 15.8; DB 9; Length 269;
Best Local Similarity 89.5%; Pred.No. 1.5e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 TGCGATTGCGCAATCTGC 19
||||| ||||| |||||
DB 62 TGCAGACTGCGCAGCTCTGC 80

RESULT 12

A1913095 269 bp mRNA linear EST 16-DEC-1999
LOCUS t288a12.x1 NCI_CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2295646 3',
DEFINITION mRNA sequence.

ACCESSION A1913095
VERSION A1913095.1 GI:5632950

KEYWORDS

EST.

SOURCE

human.

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE

1 (bases 1 to 269)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.

AUTHORS

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

TITLE

Tumor Gene Index

JOURNAL

Unpublished (1997)

COMMENT

Contact: Robert Strausberg, Ph.D.
Email: cga@bbs-remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/MLM at:
www-bio.lnll.gov/dbirp/image/image.html
Insert Length: 527 Std Error: 0.00
Seq primer: -400P from GIBCO
High quality sequence stop: 246.
Location/Qualifiers

FEATURES

1..269

/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2295646"
/clone_1lb="NCI_CGAP_K1d11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker. Site_1: Not I; Site_2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_K1d3 was prepared, and 88 circles were made in vitro. Following HAP

purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonoids 1322376-1323911, 1456007-1456775, and 1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 29 a 104 c 91 g 45 t

ORIGIN

Query Match 79.0%; Score 15.8; DB 9; Length 269;
Best Local Similarity 89.5%; Pred.No. 1.5e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 GCAGATTCGCGCAATCTGCA 20
||||| ||||| |||||
DB 80 GCAGACTGCGCAGCTCTGCA 62

RESULT 13

BB071586 301 bp mRNA linear EST 27-JUN-2000
LOCUS BB071586 RIKEN full-length enriched, 15 days embryo male testis Mus
DEFINITION musculus cDNA clone 8030498B03 3', mRNA sequence.

ACCESSION BB071586
VERSION BB071586.1 GI:8581584

KEYWORDS

EST.
house mouse.

SOURCE

Mus musculus

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 301)

AUTHORS

Kono, H., Aizawa, K., Akahira, S., Akiyama, J., Arakawa, T., Carninci, P., Endo, T., Fukuda, S., Fukunishi, Y., Hara, A., Hayatsu, N., Hirozane, T., Horii, F., Ishii, Y., Ishikawa, J., Ishikawa, T., Itoh, M., Izawa, M., Kadota, K., Kagawa, I., Kai, C., Kawai, J., Kikuchi, N., Kiyosawa, H., Kojima, Y., Kondo, S., Koyas, S., Kurihara, C., Kusakabe, M., Matsuyama, T., Miki, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y., Ono, T., Owa, C., Saito, H., Sakai, C., Sato, K., Shibata, K., Shibata, Y., Shigemoto, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Sugihara, Y., Suzuki, H., Suzuki, H., Tagawa, A., Takahashi, F., Tomioka, N., Toya, T., Tsunoda, Y., Watabiki, A., Watanabe, S., Yamamura, T., Yamane, I., Yano, R., Yasunishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M., Yamamoto, M., and Hayashizaki, Y.
RIKEN Mouse ESTs (Kono, H., et al.)
Unpublished (2000)

TITLE

Yoshihide Hayashizaki

JOURNAL

Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute

COMMENT

The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsr.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>
Carninci, P., Nishiyama, Y., Westover, A., Itoh, M., Nagasaka, S., Sasaki, N., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
Thermosensitization and thermocatalysis of thermolabile enzymes by cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998)
Itoh, M., Katsunari, T., Akiyama, J., Shibata, K., Izawa, M., Kawai, J., Tomaru, Y., Carninci, P., Shibata, Y., Ozawa, Y., Muramatsu, M., Okazaki, Y., and Hayashizaki, Y.
Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999)
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999)
Please visit our web site (<http://genome.ritc.riken.go.jp>) for further details.
Location/Qualifiers

FEATURES

1..301

/organism="Mus musculus"
/strain="C57BL/6J"

Query Match	79.0%	Score 15.8	DB 10	Length 301
Best Local Similarity	89.5%	Pred. No. 1.6e+03		
Matches 17; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0;
QY	1	TGCAGATTGCCCAATCTGC	19	
Db	224	TGCAGATTGAGAAATCTGC	242	

REFERENCE

TITLE
JOURNAL
COMMENT

Contact: Yoshinori Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-2 Suenho-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
Fax: 81-45-503-9216
Email: genome-res@gsc.riken.go.jp,
URL: <http://genome.gsc.riken.go.jp/>

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source
1. .301
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="8030498B09"
/clone_lib="RIKEN full-length enriched, 15 days embryo
male testis"

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Query Match	79.08;	Score. 15.8;	DB 10;	Length 301;
Best Local Similarity	89.58;	Pred. No. 1.6e+03;		
Matches 17; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0

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QY      2 GCAGATTGCGCAATCTGCA 20
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Db     242 GCAGATTCTCAATCTGCA 224

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RESULT 15	LOCUS	DEFINITION	VERSION	KEYWORDS	SOURCE
B0026495	B0026495	393 bp	MRNA	linear	EST 23-AUG-2002
	OHG17A10.yg.ab1	OH-EFGH sunflower	RHA280	Helianthus annuus	cdna
		clone OHG17A10, mRNA sequence.			
	B0026495				
	B0026495.1	GI:22462015			
	EST.				
	common sunflower.				

REFERENCE
AUTHORS
1 (pages 1 to 393)
Kozlik, A., Michelmore, R. W., Knapp, S., Matvienko, M., Rieseberg, L.,
Lin, H., van Damme, M., Lavelle, D., Chevalier, P., Ziegler, J., Ellison

TITLE
P., Kolman, J., Slabaugh, M.S., Livingston, K., Zhou, Y., Lai, Z.,
Church, S., Jackson, L. and Bradford, K.
Lettuce and Sunflower ESTs from the Composite Genome Project
<http://compgenomics.ucdavis.edu/>
Unpublished (2002)

JOURNAL
COMMENT

Contact: Alexander Kozik [R.W.Michelmore]
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singleton, see <http://cgpdb.ucdavis.edu/> for details.
Plate: OHG17 row: A column: 10.
Location/Qualifiers

FEATURES
source

```
1. .393
/organism="Helianthus annuus"
/cultivar="RHA280"
/db_xref="taxon:432"
/clone="OHG17A10"
/clone_1lb="OH_EFGHJ sunflower RHA280"
/lab_host="E.coli"
/note="Vector: pBRCDNA5flab: The library was constructed
from 11 different sources of RNA from a single genotype.
Separate cDNAs were generated using primers that
incorporated unique 5' and 3' tags to distinguish each
source of RNA. cDNAs were then pooled, size-fractionated,
directionally cloned into a custom medium-copy vector and
transformations made with four size classes to minimize
size bias. Details of each source of RNA and library
construction can be obtained at http://cgpdb.ucdavis.edu/
TAG_L1b-QH_EFGHJ sunflower RHA280
TAG_TISSUE=hulls
TAG_SEQ=CTAGTCGGG"
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BASE COUNT 101 a 108 c 85 g 99 t
ORIGIN

Query Match 79.0%; Score 15.8; DB 14; Length 393;
Best Local Similarity 89.5%; Pred. No. 1.8e+03;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 GCAGATGGCAATCTGCA 20
|||||
Db 107 GCAGATGGCTATCTCCA 125

Search completed: June 26, 2003, 22:12:33
Job time : 1531.13 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 09:43:36 ; Search time 226.087 Seconds
(without alignments)
199.215 Million cell updates/sec

Title: US-09-355-254F-19

Perfect score: 20

Sequence: 1 ctagttcccccgaatgatg 20

Scoring table: IDENTITY_NUC
Gap 10.0, Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Listing first 45 summaries

N_Geneseq_101002:*

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- 2: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1981.DAT:*
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- 4: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1983.DAT:*
- 5: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1984.DAT:*
- 6: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1985.DAT:*
- 7: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1986.DAT:*
- 8: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1987.DAT:*
- 9: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1988.DAT:*
- 10: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1989.DAT:*
- 11: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1990.DAT:*
- 12: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1991.DAT:*
- 13: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1992.DAT:*
- 14: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1993.DAT:*
- 15: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1994.DAT:*
- 16: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1995.DAT:*
- 17: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1996.DAT:*
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- 19: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1998.DAT:*
- 20: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA1999.DAT:*
- 21: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2000.DAT:*
- 22: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:*
- 23: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT:*
- 24: /SIDS2/gcgdata/geneseq/geneseq-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	19 AAV46011	Immune adjuvant SR
2	20	100.0	20	24 AAU39159	Murine Toll-like r
3	20	100.0	20	11 AAU03455	Recombinant molecu
4	20	100.0	20	11 AAU03709	Murine interferon
5	20	100.0	20	14 AAU52649	Promoter and regul
6	18.4	92.0	20	18 AAU88819	Leptin response el
7	18.4	92.0	20	19 AAV38478	IRF-1 gamma interf
8	18.4	92.0	25	21 AAU32038	STAT5 binding sequ
9	18.4	92.0	669	22 AAU46291	Human Interferon r

10	18.4	92.0	669	22	AAU46292	Human Interferon r
11	18.4	92.0	659	22	AAU46293	Human Interferon r
12	18.4	92.0	700	22	AAU91999	Human inflammatory
13	18	90.0	86	19	AAU59503	Upstream primer fo
14	18	90.0	86	19	AAU34146	Upstream primer fo
15	18	90.0	86	19	AAU34278	Upstream primer fo
16	18	90.0	86	19	AAU69603	Upstream primer fo
17	18	90.0	86	19	AAU32073	Upstream primer fo
18	18	90.0	86	20	AAU24852	SV40 early promote
19	18	90.0	86	20	AAU24803	Upstream primer fo
20	18	90.0	86	20	AAU09776	Synthetic GAS-cont
21	18	90.0	86	20	AAU10678	PCR primer used to
22	18	90.0	86	20	AAU00402	Human GAS promoter
23	18	90.0	86	20	AAU00794	SV40 early promote
24	18	90.0	86	20	AAU06211	Upstream primer fo
25	18	90.0	86	20	AAU97908	Upstream primer fo
26	18	90.0	86	20	AAU79003	Upstream primer fo
27	18	90.0	86	20	AAU28609	Nucleotide sequenc
28	18	90.0	86	20	AAU84925	Upstream primer fo
29	18	90.0	86	20	AAU35893	PCR primer used to
30	18	90.0	86	20	AAU37361	Human GAS-contant
31	18	90.0	86	20	AAU37443	Synthetic GAS-cont
32	18	90.0	86	20	AAU27303	Upstream primer fo
33	18	90.0	86	20	AAU51693	5' PCR primer used
34	18	90.0	86	20	AAU30175	Upstream primer fo
35	18	90.0	86	20	AAU22203	Upstream primer fo
36	18	90.0	86	20	AAU22103	Upstream primer fo
37	18	90.0	86	20	AAU30309	5' PCR primer used
38	18	90.0	86	20	AAU20404	Upstream primer fo
39	18	90.0	86	20	AAU16170	SV40 early promote
40	18	90.0	86	20	AAU04303	Upstream primer fo
41	18	90.0	86	20	AAU0603	Upstream primer fo
42	18	90.0	86	20	AAU08847	Primer for DNA enc
43	18	90.0	86	20	AAU84403	Upstream primer fo
44	18	90.0	86	21	AAU02079	5' PCR primer to g
45	18	90.0	86	21	AAU02231	SV40 promoter sequ

ALIGNMENTS

RESULT 1	AAV46011	standard; DNA: 20 BP.
ID	AAV46011	
XX	AAV46011:	
AC	16-OCT-1998 (first entry)	
XX		
DE	Immune adjuvant STAT4.	
XX		
KW	Immune system; adjuvant; vaccine; cancer; prophylactic; pathogenicity;	
KW	modulator; tolerance; regulator; helper cell; antigen; immunoglobulin;	
KW	Ig class; autoimmune response; T-cell; B-cell; tumour; ss.	
XX		
OS	Class Bacteria.	
XX		
PN	EP855184-A1.	
XX		
PD	29-JUL-1998.	
XX		
PF	23-JAN-1997: 97EP-0101019.	
XX		
PR	23-JAN-1997: 97EP-0101019.	
XX		
PA	(HEEG/) HEEG K.	
PA	(LIPF/) LIPFORD G B.	
PA	(WAGN/) WAGNER H.	
XX		
PI	Heeg K, Lipford GB, Wagner H;	
XX		
DR	WPI: 1998-389630/34.	
XX		

PT Antigenic composition comprises polynucleotide fragment and antigen
 PT - used as vaccine to treat or prevent e.g. cancer or pathogen
 PT infections and to modulate immune response e.g. tolerance break and
 PT regulation of TH1/TH2 cells
 XX
 PS Example 5; Page 9; 28pp; English.
 XX
 CC AAV45993-V46019 are fragments of bacterial polynucleotides which are
 CC used as immune adjuvants for inclusion into vaccines to treat cancer and
 CC for prophylaxis and/or treatment of conditions caused by pathogenic
 CC micro-organisms. The polynucleotide is used for modulation of an immune
 CC response and the modulation is selected from the group break of an immune
 CC tolerance, regulation of TH1/TH2 helper cell responses, switch of Ig
 CC classes, treatment of autoimmune responses and induction of tolerances.
 CC DNA oligomers are used to enhance the reactivity of immune cells to
 CC viral, bacterial and parasitic antigens, to break tolerance in anergic T
 CC and B cells e.g. against tumour antigens, as adjuvants in vaccination
 CC against tumour-defined antigens and immunostimulatory substances in an
 CC immune response against tumours and to suppress immune reactions of the
 CC innate and acquired immune system. The composition is inexpensive and
 CC stable and does not cause lethal shock, which happens with prior art.
 CC
 CC bacterial sequences.
 CC
 SQ Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 other:
 Query Match 100.0%; Score 20; DB 19; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 CTGATTTCGCCGAATGATG 20
 DB 1 CTGATTTCGCCGAATGATG 20
 RESULT 2
 AAL39169
 ID AAL39169 standard; DNA; 20 BP.
 XX
 AC AAL39169;
 XX
 DT 05-SEP-2002 (first entry)
 XX
 DE Murine Toll-like receptor related CpG DNA SEQ ID NO 44.
 XX
 KW Murine Toll-like receptor; TLR9; TLR7; TLR8; ISNA; ds.
 XX
 OS Unidentified.
 OS
 PN WO200222809-A2.
 XX
 PD 21-MAR-2002.
 XX
 PF 17-SEP-2001; 2001WO-US29229.
 XX
 PR 15-SEP-2000; 2000US-233035P.
 XX
 PR 23-JAN-2001; 2001US-263657P.
 PR 17-MAY-2001; 2001US-291726P.
 PR 22-JUN-2001; 2001US-300210P.
 XX
 PA (COLEY) COLEY PHARM GMBH.
 XX
 PI Bauer S, Lipford G, Wagner H;
 XX
 DR WPI; 2002-393964/42.
 XX
 PT New isolated murine Toll-like receptor (TLR9, TLR7, TLR8 polypeptides,
 PT useful for identifying species specificity of immunostimulatory nucleic
 PT acid and identifying immunostimulatory nucleic acids
 XX
 PS Disclosure; Page 76; 195pp; English.
 XX
 CC The invention relates to isolated murine Toll-like receptors (TLR9,
 CC TLR7 and TLR8 polypeptides. These polypeptides comprise fully defined

CC sequences of 1032, 1050 or 1032 amino acids as given in specification, or
 CC their fragments, where TLR9, TLR7 and TLR8 polypeptides or their
 CC fragments have an amino acid sequence which is identical to human TLR9,
 CC TLR7 or TLR8 polypeptides or their fragment except for at least one amino
 CC acid of a murine TLR polypeptide. The isolated nucleic acids of the
 CC invention are useful for inhibiting TLR9 signalling activity in a cell.
 CC TLR7, TLR8 and TLR9 polypeptides are useful for identifying nucleic acid
 CC molecules which interact with a TLR polypeptide or its fragment. The
 CC TLR7, TLR8 or TLR9 polypeptides are also useful for identifying ISNA. The
 CC TLR7, TLR8 and TLR9 polypeptides are also useful for comparing TLR9
 CC signalling activity of a test compound (that is not a nucleic acid, and
 CC is a polypeptide or a part of a combinatorial library of compounds) with
 CC an ISNA. The TLR7, TLR8 and TLR9 polypeptides are also useful for
 CC identifying species specificity of an ISNA. The isolated nucleic acids of
 CC the invention are useful as probes or primers. This polynucleotide
 CC sequence represents DNA relating to the isolated Toll-like receptors of
 CC the invention.
 XX
 SQ Sequence 20 BP; 5 A; 5 C; 4 G; 6 T; 0 other:
 Query Match 100.0%; Score 20; DB 24; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1.2;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 CTGATTTCGCCGAATGATG 20
 DB 1 CTGATTTCGCCGAATGATG 20
 RESULT 3
 AA003455
 ID AA003455 standard; DNA; 524 BP.
 XX
 AC AA003455;
 XX
 DT 23-JUL-1990 (first entry)
 XX
 DE Recombinant molecule encoding protein having IRF-1 activity.
 XX
 KW Regulatory factor-1, interferon-beta gene, cis-elements; ss.
 XX
 OS Eukaryotic.
 OS
 XX
 FH Key
 FH GC_signal
 FT Location/Qualifiers
 FT /*tag- a
 FT 70..76
 FT /label-gc Box 1
 FT GC_signal
 FT 92..98
 FT /*tag- b
 FT /label-gc Box 2
 FT CMAAT_signal
 FT 201..207
 FT /*tag- c
 FT 278..280
 FT /*tag- d
 FT /label-minor Cap site
 FT misc_signal
 FT 299..301
 FT /*tag- e
 FT /label-major Cap site
 FT CDS
 FT 330..524
 FT /*tag- f
 FT /label-pirf-1
 FT
 XX
 XX EP355202-A.
 XX
 XX
 PD 28-FEB-1990.
 XX
 XX
 PF 24-NOV-1988; 88EP-0119602.
 XX
 PR 24-NOV-1988; 88EP-0113793.
 XX
 PA (TANI/) TANIGUCHI T.
 XX
 PI Taniguchi T;

XX WPI; 1990-060144/09.
XX Interferon regulatory factor-1 - which is active in virus induced
PT activation of Interferon-beta gene transcription by interacting with
PT cis-elements.
XX
XX Claim 13; page 46; 65pp; English.
XX
CC Recombinant molecule containing promoter and regulatory sequence; can
CC be used for the production of IRF-1. IRF-1 plays an essential role
CC in virus-induced activation of Interferon-beta gene transcription by
CC interacting with the cis-elements. The recombinant molecule can
CC also be designed for expression of pharmaceutically active proteins
CC such as e.g. cytokine or plasmidogen activator.
CC See also AA03452, -51 and -53; and EP-355190-A.
XX
SQ Sequence 524 BP; 90 A; 166 C; 185 G; 83 T; 0 other;
XX
Query Match 100.0%; Score 20; DB 11; Length 524;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGATTTCCCGGAATGATG 20
DB 171 CTGATTTCCCGGAATGATG 190
RESULT 4
AA03709
ID AA03709 standard; DNA: 524 BP.
AC AA03709;
XX
XX 03-AUG-1990 (first entry)
XX
DE Murine Interferon regulatory factor-1 promoter and regulatory sequence.
XX
XX Interferon regulatory factor; IRF-1 beta-gene; Interferon;
XX murine; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH CANT_signal 201..207
FT /*tag- a
FT 70..76
FT GC_signal 92..98
FT /*tag- b
FT 77..79
FT misc_feature /*tag- c
FT /*tag- d
FT misc_feature 298..300
FT /*tag- e
FT CDS /label-Major cap site.
FT 300..523
FT /*tag- f
XX
XX EP359998-A.
XX
XX 28-MAR-1990.
XX
XX 17-AUG-1989; 89EP-0115158.
XX
XX 24-AUG-1988; 88EP-0113793.
XX 24-NOV-1988; 88EP-0119602.
XX
XX (TANI/) TANIGUCHI T.
XX
XX Taniguchi T, Fuchita T;
XX
XX WPI; 1990-092658/13.

XX
XX Recombinant Interferon regulator factor-1 -
PT which plays an essential role in virus-induced activation of
PT Interferon-beta gene transcription.
XX
XX Claim 10; Fig 7; 55pp; English.
XX
CC Promoter and regulator sequence for IFN regulator factor-1.
XX
SQ Sequence 524 BP; 90 A; 166 C; 185 G; 83 T; 0 other;
XX
Query Match 100.0%; Score 20; DB 11; Length 524;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CTGATTTCCCGGAATGATG 20
DB 171 CTGATTTCCCGGAATGATG 190
RESULT 5
AA052649
ID AA052649 standard; DNA: 524 BP.
AC AA052649;
XX
XX 26-MAY-1994 (first entry)
XX
DE Promoter and regulatory sequence used in recombinant construct.
XX
XX Interferon; Interferon-beta; regulation; gene expression;
XX regulatory element; ss.
XX
XX Mus musculus.
XX
XX Key Location/Qualifiers
FH GC_signal 70..76
FT /*tag- a
FT /note- "GC Box 1."
FT GC_signal 92..98
FT /*tag- b
FT /note- "GC box 2."
FT CANT_signal 201..207
FT /*tag- c
FT misc_feature 278..280
FT /*tag- d
FT misc_feature 299..301
FT /*tag- e
FT /note- "Minor cap site."
FT /*tag- f
FT /note- "Major cap site."
XX
XX EP571743-A.
XX
XX 01-DEC-1993.
XX
XX 17-AUG-1989; 89EP-0115158.
XX
XX 24-AUG-1988; 88EP-0113793.
XX 24-NOV-1988; 88EP-0119602.
XX
XX (TANI/) TANIGUCHI T.
XX
XX Fujita T, Taniguchi T;
XX
XX WPI; 1993-378709/48.
XX
XX Interferon regulatory factor - useful for controlling expression
XX of Interferon genes
XX
XX Disclosure; Page 8; 45pp; English.
XX
XX A protein which binds to the repeated oligomer sequence AAGTGA
XX and regulatory upstream elements of the human Interferon regulatory

CC factor (IRF)-beta gene (See AAR44217) can be used to regulate the
CC expression of interferon-beta. In a recombinant molecule, the
CC sequence encoding this protein can be placed under the control of
CC this promoter and regulatory sequence.

XX Sequence 524 BP; 90 A; 166 C; 185 G; 83 T; 0 other;

Query Match 100.0%; Score 20; DB 14; Length 524;
Best Local Similarity 100.0%; Pred. No. 1.7;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CTGATTTCCTCCGGAATGATG 20
|||||

DB 171 CTGATTTCCTCCGGAATGATG 190

RESULT 6

AAT88819
ID AAT88819 standard; DNA; 20 BP.

XX AAT88819;

DT 12-MAY-1998 (first entry)

DE Leptin response element IRF-1 derived gamma interferon activation seq.

XX Leptin response element; IRF-1; gamma interferon activation sequence;

KW detection; obesity; diabetes; infertility; cachexia; anorexia;

KW human; Ob-r; ss.

XX Synthetic.

XX WO9740380-A1.

XX 30-OCT-1997.

PD 18-APR-1997; 97WO-US06505.

XX 15-NOV-1996; 96US-0031002.

PR 22-APR-1996; 96US-0016051.

PR 06-JUN-1996; 96GB-0011785.

XX (MERI) MERCK & CO INC.

XX Chen F, Cully DF, Hese JW, Qureshi SA, Rosenblum CI;

PI Tota MR, Van Der Ploeg L;

DR WPI, 1997-536003/49.

XX Claim 3; Page 12; 28pp; English.

CC The present sequence represents a leptin response element IRF-1 derived
CC gamma-interferon activation sequence. A method has been developed for
CC determining the presence of a leptin-receptor binding component (A) in
CC a sample. The method involves: (i) treating the sample with cells
CC containing: (a) nucleic acid (I) comprising a reporter gene (RG) linked
CC to a promoter that includes at least one leptin response element (LRE);
CC and (b) nucleic acid (II) encoding a leptin receptor (LR); and (ii)
CC determining if transcription of RG occurs. The method is used to assay
CC activity in recombinant leptin preparations and to identify leptin
CC (ant)agonists which are potentially useful for treating obesity,
CC diabetes and infertility (agonists) or cachexia or anorexia
CC (antagonists). Cells transformed with the vector are used to confirm
CC activity of putative LRE and to determine their leptin-binding activity
CC (by their response to added leptin). Also the binding of different LR
CC can be compared. The method is an alternative to current animal tests
CC on ob/ob mice.

XX Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 other;

Query Match 92.0%; Score 18.4; DB 18; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 CTGATTTCCTCCGGAATGATG 20
|||||

DB 1 CTGATTTCCTCCGGAATGATG 20

RESULT 7

AAV38478
ID AAV38478 standard; DNA; 20 BP.

XX AAV38478;

DT 12-OCT-1998 (first entry)

DE IRF-1 gamma interferon activation sequence.

XX Ob-receptor; hypothalamus; obesity; leptin; diabetes; infertility;

KW anorexia; cachexia; ss.

XX Synthetic.

XX WO9824881-A1.

XX 11-JUN-1998.

PD 26-NOV-1997; 97WO-US22165.

PR 02-DEC-1996; 96US-0032367.

XX (MERI) MERCK & CO INC.

XX Fong TM, Huang RC, Van Der Ploeg L;

DR WPI, 1998-333504/29.

XX New mutant ob receptor(s) - used to develop products for drug
XX screening and for gene therapy for weight control, e.g. obesity or
XX anorexia

XX Disclosure: Page 9; 27pp; English.

CC The IRF-1 derived gamma interferon activation sequence is used in
CC the construction of a reporter gene for use in determining whether an
CC OB-R ligand is present in a sample. The ob-receptor (OB-R), a member of
CC the cytokine receptor family is transcribed in the hypothalamus and is
CC involved in obesity. Mutants lacking a functional first or second CK-P3
CC module or a functional intracellular domain can be used in assays for the
CC detection of ligands, agonists, antagonists and ligand mimetics. The
CC leptin agonists identified can be used in situations where leptin
CC insufficiency causes obesity, diabetes or infertility. The leptin
CC antagonists identified can be used in the treatment of anorexia and
CC cachexia. The mutant receptor nucleic acids can also be used in gene
CC therapy for weight control, e.g. for treating obesity or anorexia.

XX Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 other;

Query Match 92.0%; Score 18.4; DB 19; Length 20;

Best Local Similarity 95.0%; Pred. No. 7.4;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 CTGATTTCCTCCGGAATGATG 20
|||||

DB 1 CTGATTTCCTCCGGAATGATG 20

RESULT 8

AAZ92038
ID AAZ92038 standard; DNA; 25 BP.

XX AAZ92038;

XX 08-JUN-2000 (first entry)
 XX STRAT5 binding sequence oligonucleotide IRF-1 GAS.
 DE
 XX
 XX STRAT5 protein; signal transducer and activator of transcription 5;
 KM protein binding sequence; transcription factor modulator; inhibitor;
 KM malignant cell removal; proliferative malignancy; neoplastic disease;
 KM immunological disorder; inflammatory disorder; therapy; ds.
 XX
 OS Synthetic.
 XX
 PN W0200006696-A2.
 XX
 PD 10-FEB-2000.
 XX
 PF 30-JUL-1999; 99MO-US17366.
 XX
 PR 30-JUL-1998; 98US-0094695.
 XX
 PA (UYSF-) UNIV SOUTH FLORIDA.
 XX
 PI Zuckerman KS, Liu RY;
 XX WPI; 2000-195281/17.
 DR
 XX
 XX Therapeutic agent for treating transcription factor-related illnesses
 PT such as proliferative malignancies, comprises an oligonucleotide for
 PT regulating transcription factor function -
 PS Claim 15; Page 34; 43pp; English.
 XX
 CC This sequence represents a STRAT5 (signal transducer and activator of
 CC transcription 5) protein binding sequence. The invention relates to a
 CC therapeutic agent comprising an effective amount of an oligonucleotide
 CC (1) for modulating the function of transcription factors and a
 CC pharmaceutical acceptable carrier. The oligonucleotides can be used in a
 CC method of removing malignant cells in vitro. The oligonucleotides can be
 CC used in compositions to inhibit transcription factors in illnesses where
 CC transcription factors play a role, especially proliferative malignancies,
 CC neoplastic diseases, and immunological and inflammatory disorders.
 CC
 SO Sequence 25 BP; 6 A; 8 C; 6 G; 5 T; 0 other;
 Query Match 92.0%; Score 18.4; DB 21; Length 25;
 Best Local Similarity 95.0%; Pred. No. 7.6;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1 CTGATTTCCCGAATGATG 20
 Db 3 CTGATTTCCCGAATGATG 22
 RESULT 9
 AAH46291 standard; DNA; 669 BP.
 XX
 AC AAH46291;
 XX
 DT 25-SEP-2001 (first entry)
 XX
 DE Human interferon regulatory factor-1 promoter region, wild-type allele.
 XX
 XX Human: interferon regulatory factor-1; IRF-1; promoter;
 KM upstream region; genotyping; polymorphism; hepatitis C virus;
 KM HCV infection; interferon therapy efficacy; IFN; RFLP analysis;
 KM restriction fragment length polymorphism; ds.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT allele replace (108, C)
 FT /*tag- a

FT /note- "This nucleotide substitution is present in
 FT the IRF-1 alleles found in HCC-T/HCC-M (IFN-
 FT sensitive) and PLC/PRF/5 (IFN insensitive) liver
 FT cancer cells"
 FT allele replace (196, A)
 FT /*tag- b
 FT /note- "This nucleotide substitution is present
 FT only in the IRF-1 allele found in PLC/PRF/5
 FT (IFN insensitive) liver cancer cells"
 XX
 PN JP2001136973-A.
 XX
 PD 22-MAY-2001.
 XX
 PF 16-NOV-1999; 99JP-0324975.
 XX
 PR 16-NOV-1999; 99JP-0324975.
 XX
 PA (SAKA) OTSUKA PHARM CO LTD.
 XX
 DR WPI; 2001-460211/50.
 XX
 PI Detection of abnormal human interferon regulatory factor-1 (IRF-1) gene
 PT
 PT Example 2; Fig 1-2; 8pp; Japanese.
 PS
 XX
 CC The invention relates to a method for the detection of an abnormal
 CC allele of the human interferon regulatory factor-1 (IRF-1) gene. The
 CC abnormal allele (AAH46293) is present in PLC/PRF/5 liver cancer cells
 CC and contains a G to A substitution at position 196 of the IRF-1 promoter
 CC region (normal alleles given in AAH46293 and AAH46294). The abnormal
 CC allele confers an insensitivity to the effects of interferon (IFN).
 CC In the method of the invention, the presence or absence of adenine
 CC at position 196 of the IRF-1 promoter is detected using procedures such
 CC as restriction fragment length polymorphism (RFLP) analysis. Prior to
 CC analysis, an IRF-1 gene fragment containing the polymorphic site can
 CC optionally be prepared (e.g., by PCR). The invention also discloses the
 CC use of IRF-1 gene fragments as probes to detect the A polymorphism. The
 CC method of the invention is used to genotype a patient with hepatitis C
 CC virus (HCV) infection in order to predict whether interferon therapy
 CC will be effective. The present sequence represents the wild-type
 CC allele of the human IRF-1 promoter region (also given in GenBank
 CC accession number X53095) which was used in RFLP analysis.
 CC
 SO Sequence 669 BP; 97 A; 234 C; 247 G; 91 T; 0 other;
 Query Match 92.0%; Score 18.4; DB 22; Length 669;
 Best Local Similarity 95.0%; Pred. No. 11;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1 CTGATTTCCCGAATGATG 20
 Db 367 CTGATTTCCCGAATGATG 386
 RESULT 10
 AAH46292 standard; DNA; 669 BP.
 XX
 AC AAH46292;
 XX
 DT 25-SEP-2001 (first entry)
 XX
 DE Human interferon regulatory factor-1 promoter region, HCC-T/HCC-M allele.
 XX
 XX Human: interferon regulatory factor-1; IRF-1; promoter;
 KM upstream region; genotyping; polymorphism; hepatitis C virus;
 KM HCV infection; interferon therapy efficacy; IFN; RFLP analysis;
 KM restriction fragment length polymorphism; HCC-T allele; HCC-M; ds.
 XX
 OS Homo sapiens.
 XX

PH	Key	Location/Qualifiers
FT	allele	replace (108, T)
FT		/tag- a
FT	allele	replace (196, A)
FT		/tag- b
FT		"this nucleotide substitution is additionally present in the IRF-1 allele found in PLC/PRR/5 (IFN insensitive) liver cancer cells"
PN	JP2001136973-A.	
PD		
PD	22-MAY-2001.	
PF	16-NOV-1999;	99JP-0324975.
XX		
PR	16-NOV-1999;	99JP-0324975.
XX		
PA	(SAKA) OTSUKA PHARM CO LTD.	
XA		
XX	WPI: 2001-460211/50.	
XX		
PT	Detection of abnormal human interferon regulatory factor-1 (IRF-1) gene	
PR	-	
PS	Example 2; Fig 1-2; 8pp; Japanese.	
XX		
CC	The invention relates to a method for the detection of an abnormal	
CC	allele of the human interferon regulatory factor-1 (IRF-1) gene. The	
CC	abnormal allele (AAH46293) is present in PLC/PRR/5 liver cancer cells	
CC	and contains a G to A substitution at position 196 of the IRF-1 promoter	
CC	region (normal alleles given in AAH46293 and AAH46294). The abnormal	
CC	allele confers an insensitivity to the effects of interferon (IFN).	
CC	In the method of the invention, the presence or absence of adenine	
CC	at position 196 of the IRF-1 promoter is detected using procedures such	
CC	as restriction fragment length polymorphism (RFLP) analysis. Prior to	
CC	analysis, an IRF-1 gene fragment containing the polymorphic site can	
CC	optionally be prepared (e.g., by PCR). The invention also discloses the	
CC	use of IRF-1 gene fragments as probes to detect the A polymorphism. The	
CC	method of the invention is used to genotype a patient with hepatitis C	
CC	virus (HCV) infection in order to predict whether interferon therapy	
CC	will be effective. The present sequence represents the allele of the	
CC	human IRF-1 promoter region found in IFN-sensitive HCC-T and HCC-M	
CC	liver cancer cells which was used in RFLP analysis.	
SQ		
	Sequence 669 BP; 97 A; 235 C; 247 G; 90 T; 0 other:	
	Query Match	92.0%; Score 18.4; DB 22; Length 669;
	Best Local Similarity	95.0%; Pred. No. 11;
	Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;	
OY	1 CTGATTTCCCGGAATGATG 20	
DB	367 CTGATTCCCGGAATGACG 386	
RESULT 11		
ID	AAH46293	
XX	AAH46293 standard; DNA; 669 BP.	
AC		
XX	AAH46293;	
DT		
XX	25-SEP-2001 (first entry)	
DE		
XX	Human Interferon regulatory factor-1 promoter region, PLC/PRR/5 allele.	
KM	Human; Interferon regulatory factor-1; IRF-1; promoter;	
KM	upstream region; genotyping; polymorphism; hepatitis C virus;	
KM	HCV infection; interferon therapy efficacy; IFN; RFLP analysis;	
XX	restriction fragment length polymorphism; PLC/PRR/5 allele; ds.	
OS		
XX	Homo sapiens.	
XX		
XX		
XX	key	Location/Qualifiers

```

FT      allele      replace (108, T)
FT      /tag= a
FT      allele      replace (196, G)
FT      /tag= b
FT
FT
FT      JP2001136973-A.
XX
XX      22-MAY-2001.
XX
XX      16-NOV-1999; 99JP-0324975.
XX
XX      16-NOV-1999; 99JP-0324975.
XX
XX      (SAKA ) OTSUKA PHARM CO LTD.
XX
XX      WPI: 2001-460211/50.
XX
XX      Detection of abnormal human interferon regulatory factor-1 (IRF-1) gene
XX
XX      Example 1; Fig 1-2; 8pp; Japanese.
XX
XX      The invention relates to a method for the detection of an abnormal
XX      allele of the human interferon regulatory factor-1 (IRF-1) gene. The
XX      abnormal allele (AAH46293) is present in PLC/PRF/5 liver cancer cells
XX      and contains a G to A substitution at position 196 of the IRF-1 promoter
XX      region (normal alleles given in AAH46293 and AAH46294). The abnormal
XX      allele confers an insensitivity to the effects of interferon (IFN).
XX      In the method of the invention, the presence or absence of adenine
XX      at position 196 of the IRF-1 promoter is detected using procedures such
XX      as restriction fragment length polymorphism (RFLP) analysis. Prior to
XX      analysis, an IRF-1 gene fragment containing the polymorphic site can
XX      optionally be prepared (e.g., by PCR). The invention also discloses the
XX      use of IRF-1 gene fragments as probes to detect the A polymorphism. The
XX      method of the invention is used to genotype a patient with hepatitis C
XX      virus (HCV) infection in order to predict whether interferon therapy
XX      will be effective. The present sequence represents the allele of the
XX      human IRF-1 promoter region found in IFN-insensitive PLC/PRF/5
XX      liver cancer cells which was used in RFLP analysis.
XX
XX      Sequence 669 BP; 98 A; 235 C; 246 G; 90 T; 0 other;
XX
XX      Query Match 92.0%; Score 18.4; DB 22; Length 669;
XX      Best Local Similarity 95.0%; Pred. No. 11;
XX      Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0.
XX
XX      1 CTGATTTCCTCCGAAATGATG 20
XX      |||||||||||||||
XX      367 CTGATTTCCTCCGAAATGACG 386
XX
XX      RESULT 12
XX      AAH91999
XX      AAH91999 standard; DNA; 700 BP.
XX
XX      AAH91999;
XX
XX      09-OCT-2001 (first entry)
XX
XX      Human inflammatory bowel disease related gene fragment IGR2011a.
XX
XX      Human inflammatory bowel disease; Crohn's disease; ulcerative colitis;
XX      single nucleotide polymorphism; SNP; chromosome 19p13; paternity test;
XX      chromosome 5q31-33; forensic test; gene therapy; ds.
XX
XX      Homo sapiens.
XX
XX      WO200142511-A2.
XX
XX      14-JUN-2001.
XX
XX      11-DEC-2000; 2000WO-US33632.
XX

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PR 10-DEC-1999; 9905-0170257.
PR 10-APR-2000; 2000US-0196046.
XX
PA (WHEED) WHITEHEAD INST BIOMEDICAL RES.
PA (ELLI-) ELLIPSIS BIOTHERAPEUTICS CORP.
XX
PI Daly M, Hudson TJ, Lander ES, Rloux J, Siminovitch K;
DR WPI; 2001-367874/38.
XX
PT Testing for the presence of polymorphisms associated with inflammatory
PT bowel disease, using a hybridization assay -
XX
PS Disclosure; Page 89; 463pp; English.
PS
XX The present invention describes a method for detecting the presence of
CC polymorphisms associated with inflammatory bowel diseases such as
CC ulcerative colitis and Crohn's disease. The methods can be used to detect
CC the presence of genetic polymorphisms associated with inflammatory bowel
CC disease and correlating their occurrence with disease states. They may be
CC used in this way for phenotypic correlations, forensics, paternity
CC testing, medicine and genetic analysis. The present sequence is a gene
CC containing a polymorphic site described in the exemplification of the
CC invention.
XX
SQ Sequence 700 BP; 97 A; 255 C; 254 G; 94 T; 0 other;
XX
Query Match 92.0%; Score 18.4; DB 22; Length 700;
Best Local Similarity 95.0%; Pred. No. 11;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 CTGATTTCCCGGAATGATG 20
|||||
Db 331 CTGATTTCCCGGAATGATG 350
RESULT 13
AAV59503
ID AAV59503 standard; DNA: 86 BP.
XX
AC AAV59503;
XX
DT 02-FEB-1999 (first entry)
XX
DE Upstream primer for SV40 promoter sequence.
XX
KW Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW inflammation; ischaemic shock; Alzheimer's disease; restenosis; AIDS;
KW cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX
XX Synthetic.
OS Simian virus 40.
XX
PN WC9839448-A2.
PD 11-SEP-1998.
XX
PF 06-MAR-1998; 98MO-US04493.
XX
XX 02-OCT-1997; 97US-0061060.
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PR 22-AUG-1997; 97US-0056884.
PR 22-AUG-1997; 97US-0056886.
PR 22-AUG-1997; 97US-0056887.
PR 22-AUG-1997; 97US-0056888.
PR 22-AUG-1997; 97US-0056889.
PR 22-AUG-1997; 97US-0056892.
PR 22-AUG-1997; 97US-0056893.
PR 22-AUG-1997; 97US-0056894.
PR 22-AUG-1997; 97US-0056903.
PR 22-AUG-1997; 97US-0056908.
PR 22-AUG-1997; 97US-0056909.
PR 22-AUG-1997; 97US-0056910.
PR 22-AUG-1997; 97US-0056911.
PR 05-SEP-1997; 97US-0057650.
PR 05-SEP-1997; 97US-0057659.
PR 05-SEP-1997; 97US-0057761.
PR 12-SEP-1997; 97US-0058785.
XX
XX (HUMAN-) HUMAN GENOME SCI INC.
XX Bednarik DP, Brewer LA, Carter KC, Duan R, Ebner R, Endress GA,
PI Feng P, Ferrite AM, Fischer CL, Florence KA, Greene JM, Hu JS,
PI Kyaw H, Laffleur DW, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA,
PI Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z,
XX WPI, 1998-506364/43.
XX
XX New isolated human genes and the secreted polypeptide(s) they encode
PT - useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders
XX
XX Example 12, Page 220, 721pp: English.
XX
XX The invention relates to 186 novel genes and their fragments (nucleic
CC acid sequences: AAV59511-V59812; amino acid sequences AAW74731-W75026)
CC which are useful for preventing, treating or ameliorating medical
CC conditions e.g. by protein or gene therapy. Also, pathological
CC conditions can be diagnosed by determining the amount of the new
CC polypeptides in a sample or by determining the presence of mutations in
CC the new polynucleotides. Specific uses are described for each of the 186
CC polynucleotides, based on which tissues they are most highly expressed in
CC (see AAV59511 for described uses). The genes can be used to generate
CC fusion proteins by linking to the gene to a sequence encoding human
CC immunoglobulin Fc portion (AAV59502) for increasing the stability of the
CC fused protein as compared to the secreted protein only. Genes encoding
CC the secreted proteins can be used for high-throughput assays for
CC biological activities. Expression of the genes can be driven by a range
CC of promoter active in eukaryotic cells. Primers AAV59503-V59504 are used
CC to amplify the simian virus 40 (SV40) promoter (AAV59505) to generate a
CC construct for identifying proteins involved in signal transduction which
CC bind the gamma activation site (Gas) in a similar manner to the Jaks-STAT
CC pathways.
XX
SQ Sequence 86 BP; 23 A; 26 C; 13 G; 24 T; 0 other;

Query Match 90.0%; Score 18; DB 19; Length 86;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTTCCCGAAATGAT 19
DB 40 TGATTTCCCGAAATGAT 57

RESULT 14
ID AAV34146 standard; DNA; 86 BP.
XX AAV34146;
AC AAV34146;
XX
DT 02-FEB-1999 (first entry)
XX
DE Upstream primer for SV40 promoter sequence.

XX Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW diagnosis; tissue; cancer; tumor; neurodegenerative disorder; leukemia;
KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW immune system; asthma; lymphocytic disease; brain; hepatitis; lymphoma;
KW inflammation; ischemic shock; Alzheimer's disease; restenosis; AIDS;
KW cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX
OS Synthetic.
OS Simian virus 40.
XX W09839446-a2.
XX
XX 11-SEP-1998.
XX
XX
XX 06-MAR-1998; 98WO-US04492.
XX
XX 07-MAR-1997; 97US-0038621.
XX 07-MAR-1997; 97US-0040161.
XX 07-MAR-1997; 97US-0040162.
XX 07-MAR-1997; 97US-0040163.
XX 07-MAR-1997; 97US-0040333.
XX 07-MAR-1997; 97US-0040334.
XX 07-MAR-1997; 97US-0040336.
XX 07-MAR-1997; 97US-0040626.
XX 11-APR-1997; 97US-0043311.
XX 11-APR-1997; 97US-0043312.
XX 11-APR-1997; 97US-0043313.
XX 11-APR-1997; 97US-0043314.
XX 11-APR-1997; 97US-0043315.
XX 11-APR-1997; 97US-0043568.
XX 11-APR-1997; 97US-0043569.
XX 11-APR-1997; 97US-0043576.
XX 11-APR-1997; 97US-0043577.
XX 11-APR-1997; 97US-0043578.
XX 11-APR-1997; 97US-0043580.
XX 11-APR-1997; 97US-0043669.
XX 11-APR-1997; 97US-0043670.
XX 11-APR-1997; 97US-0043671.
XX 11-APR-1997; 97US-0043672.
XX 11-APR-1997; 97US-0043674.
XX 23-MAY-1997; 97US-0047492.
XX 23-MAY-1997; 97US-0047500.
XX 23-MAY-1997; 97US-0047501.
XX 23-MAY-1997; 97US-0047502.
XX 23-MAY-1997; 97US-0047503.
XX 23-MAY-1997; 97US-0047504.
XX 23-MAY-1997; 97US-0047581.
XX 23-MAY-1997; 97US-0047582.
XX 23-MAY-1997; 97US-0047583.
XX 23-MAY-1997; 97US-0047584.
XX 23-MAY-1997; 97US-0047585.
XX 23-MAY-1997; 97US-0047586.
XX 23-MAY-1997; 97US-0047587.
XX 23-MAY-1997; 97US-0047588.
XX 23-MAY-1997; 97US-0047589.
XX 23-MAY-1997; 97US-0047590.
XX 23-MAY-1997; 97US-0047592.
XX 23-MAY-1997; 97US-0047593.
XX 23-MAY-1997; 97US-0047594.
XX 23-MAY-1997; 97US-0047595.
XX 23-MAY-1997; 97US-0047596.
XX 23-MAY-1997; 97US-0047597.
XX 23-MAY-1997; 97US-0047598.
XX 23-MAY-1997; 97US-0047599.
XX 23-MAY-1997; 97US-0047600.
XX 23-MAY-1997; 97US-0047601.
XX 23-MAY-1997; 97US-0047612.
XX 23-MAY-1997; 97US-0047613.
XX 23-MAY-1997; 97US-0047614.
XX 23-MAY-1997; 97US-0047615.
XX 23-MAY-1997; 97US-0047617.
XX 23-MAY-1997; 97US-0047618.

PR 23-MAY-1997; 97US-0047632.
PR 23-MAY-1997; 97US-0047633.
PR 06-JUN-1997; 97US-0048964.
PR 06-JUN-1997; 97US-0048974.
PR 23-AUG-1997; 97US-0056630.
PR 23-AUG-1997; 97US-0056631.
PR 23-AUG-1997; 97US-0056632.
PR 23-AUG-1997; 97US-0056636.
PR 23-AUG-1997; 97US-0056637.
PR 23-AUG-1997; 97US-0056662.
PR 23-AUG-1997; 97US-0056664.
PR 23-AUG-1997; 97US-0056845.
PR 23-AUG-1997; 97US-0056862.
PR 23-AUG-1997; 97US-0056864.
PR 23-AUG-1997; 97US-0056872.
PR 23-AUG-1997; 97US-0056874.
PR 23-AUG-1997; 97US-0056875.
PR 23-AUG-1997; 97US-0056876.
PR 23-AUG-1997; 97US-0056877.
PR 23-AUG-1997; 97US-0056878.
PR 23-AUG-1997; 97US-0056879.
PR 23-AUG-1997; 97US-0056880.
PR 23-AUG-1997; 97US-0056881.
PR 23-AUG-1997; 97US-0056882.
PR 23-AUG-1997; 97US-0056884.
PR 23-AUG-1997; 97US-0056886.
PR 23-AUG-1997; 97US-0056887.
PR 23-AUG-1997; 97US-0056888.
PR 23-AUG-1997; 97US-0056889.
PR 23-AUG-1997; 97US-0056892.
PR 23-AUG-1997; 97US-0056893.
PR 23-AUG-1997; 97US-0056894.
PR 23-AUG-1997; 97US-0056903.
PR 23-AUG-1997; 97US-0056908.
PR 23-AUG-1997; 97US-0056909.
PR 23-AUG-1997; 97US-0056910.
PR 23-AUG-1997; 97US-0056911.
PR 05-SEP-1997; 97US-0057650.
PR 05-SEP-1997; 97US-0057761.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
XX Bednarik DP, Brewer LA, Carter KC, Duan R, Edner R, Endress GA,
PI Feng P, Ferrie AM, Fischer CL, Graves KA, Greene JM, Hu JS,
PI Kyaw H, Latleir DM, Li Y, Moore PA, Ni J, Olsen HS, Rosen CA,
PI Ruben SM, Shi Y, Soppet DR, Young PE, Yu GL, Zeng Z;
XX WPI, 1998-609887/51.
XX
XX New isolated human genes and the secreted polypeptides they encode
PT - useful for diagnosis and treatment of e.g. cancers, neurological
PT disorders, immune diseases, inflammation or blood disorders
XX
XX Example 12; Page 139; 447pp; English.
PS
XX The invention relates to 70 novel genes and their fragments (nucleic
XX acid sequences: AAV34154-V34276; amino acid sequences AAW75057-W75179)
CC which are useful for preventing, treating or ameliorating medical
CC conditions e.g. by protein or gene therapy. Also, pathological
CC conditions can be diagnosed by determining the amount of the new
CC polypeptides in a sample or by determining the presence of mutations in
CC the new polynucleotides. Specific uses are described for each of the 70
CC polynucleotides, based on which tissues they are most highly expressed in
CC (see AAV34154 for described uses). The genes can be used to generate
CC fusion proteins by linking to the gene to a sequence encoding human
CC immunoglobulin Fc portion (AAV34145) for increasing the stability of the
CC used protein as compared to the secreted protein only. Genes encoding
CC the secreted proteins can be used for high-throughput assays for
CC biological activities. Expression of the genes can be driven by a range
CC of promoter active in eukaryotic cells. Primers AAV34146-V34147 are used
CC to amplify the simian virus 40 (SV40) promoter (AAV34148) to generate a
CC construct for identifying proteins involved in signal transduction which
CC bind the gamma activation site (GAS) in a similar manner to the Jaks-STAT

CC pathways.
XX
SQ Sequence 86 BP; 23 A; 26 C; 13 G; 24 T; 0 other;
Query Match 90.0%; Score 18; DB 19; Length 86;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 2 TGATTCCCGAATGAT 19
DB 40 TGATTCCCGAATGAT 57
RESULT 15
AAV34278
ID AAV34278 standard; DNA; 86 BP.
XX
AC AAV34278;
XX
XX 29-JAN-1999 (first entry)
DT
XX
XX Upstream primer for SV40 promoter sequence.
DE
XX
XX Human; secreted protein; fusion protein; gene therapy; protein therapy;
KW diagnosis; tissue; cancer; tumour; neurodegenerative disorder; leukaemia;
KW developmental abnormality; foetal deficiency; blood; allergy; renal; ds;
KW immune system; asthma; lymphocytic disease; brain; hepatic; lymphoma;
KW inflammation; ischemic shock; Alzheimer's disease; restenosis; AIDS;
KW cognitive disorder; schizophrenia; prostate; obesity; osteoclast; thymus;
KW osteoporosis; arthritis; testis; lung; thyroiditis; thyroid; digestion;
KW endocrine; metabolism; regulation; malabsorption; gastritis; neoplasm.
XX
OS Synthetic.
OS Simian virus 40.
XX
XX W09840483-A2.
XX
PD 17-SEP-1998.
XX
XX 12-MAR-1998; 98WO-US04858.
XX
XX 19-DEC-1997; 97US-0068368.
XX 14-MAR-1997; 97US-0040710.
XX 14-MAR-1997; 97US-0040762.
XX 30-MAY-1997; 97US-0048100.
XX 30-MAY-1997; 97US-0048189.
XX 30-MAY-1997; 97US-0048357.
XX 30-MAY-1997; 97US-0050934.
XX 06-JUN-1997; 97US-0048970.
XX 05-SEP-1997; 97US-0057765.
XX
XX (HUMA-) HUMAN GENOME SCI INC.
XX
XX Ferrie AM, Fischer CL, Gentz RL, Greene JM, Kyaw H,
PI Li H, Li Y, Moore PA, Rosen CA, Ruben SM, Soppet DR;
PI Wei YF, Young PE, Zeng Z;
XX WPI, 1998-520811/44.
XX
XX Isolated human polynucleotide(s) encoding secretory peptide(s) -
PT used to develop products for the diagnosis and treatment of e.g.
PT inflammation, cancers, CNS disorders or immune system disorders
XX
XX Example 12; Page 89; 201pp; English.
PS
XX The invention relates to 28 novel genes and their fragments (nucleic
XX acid sequences: AAV34286-V34325; amino acid sequences AAW75196-W75235)
CC which are useful for preventing, treating or ameliorating medical
CC conditions e.g. by protein or gene therapy. Also, pathological
CC conditions can be diagnosed by determining the amount of the new
CC polypeptides in a sample or by determining the presence of mutations in
CC the new polynucleotides. Specific uses are described for each of the 28
CC polynucleotides, based on which tissues they are most highly expressed in

CC (see AAV34286 for described uses). The genes can be used to generate
 CC fusion proteins by linking to the gene to a sequence encoding human
 CC immunoglobulin Fc portion (AAV34277) for increasing the stability of the
 CC fused protein as compared to the secreted protein only. Genes encoding
 CC the secreted proteins can be used for high-throughput assays for
 CC biological activities. Expression of the genes can be driven by a range
 CC of promoter active in eukaryotic cells. Primers AAV34278-V34279 are used
 CC to amplify the simian virus 40 (SV40) promoter (AAV34280) to generate a
 CC construct for identifying proteins involved in signal transduction which
 CC bind the gamma activation site (GAS) in a similar manner to the Jaks-STAT
 CC pathways.

xx
 SQ Sequence 86 BP; 23 A; 26 C; 13 G; 24 T; 0 other;

Query Match 90.0%; Score 18; DB 19; Length 86;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTTCGCCGAATGAT 19
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 DB 40 TGATTTCGCCGAATGAT 57

Search completed: June 26, 2003, 12:16:31
 Job time : 228.158 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 10:58:25 ; Search time 30.2174 Seconds
(without alignments)
202.980 Million cell updates/sec

Title: US-09-355-254f-19

Perfect score: 20

Sequence: 1 cgtattccccgaatgatg 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/1/lna/5A.COMB.seq.*

2: /cgn2_6/ptodata/1/lna/5B.COMB.seq.*

3: /cgn2_6/ptodata/1/lna/5A.COMB.seq.*

4: /cgn2_6/ptodata/1/lna/5B.COMB.seq.*

5: /cgn2_6/ptodata/1/lna/5A.COMB.seq.*

6: /cgn2_6/ptodata/1/lna/5B.COMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	20	100.0	21	1 US-08-394-191-12	Sequence 12, Appl
C 2	20	100.0	21	1 US-08-458-364-12	Sequence 12, Appl
C 3	18.4	92.0	20	3 US-08-837-635-1	Sequence 1, Appl
C 4	18	90.0	20	3 US-09-106-182-16	Sequence 16, Appl
C 5	18	90.0	20	3 US-09-227-357-3	Sequence 3, Appl
C 6	18	90.0	20	3 US-09-280-839-6	Sequence 6, Appl
C 7	18	90.0	20	3 US-09-411-977-18	Sequence 18, Appl
C 8	18	90.0	20	3 US-09-479-7298-23	Sequence 23, Appl
C 9	18	90.0	20	3 US-09-257-179-3	Sequence 3, Appl
C 10	18	90.0	20	3 US-09-149-476-3	Sequence 3, Appl
C 11	18	90.0	20	3 US-09-288-143-3	Sequence 3, Appl
C 12	18	90.0	20	3 US-09-487-792-25	Sequence 25, Appl
C 13	18	90.0	20	3 US-09-152-060-3	Sequence 3, Appl
C 14	18	90.0	20	3 US-09-106-182-18	Sequence 18, Appl
C 15	18	90.0	20	3 US-09-227-357-5	Sequence 5, Appl
C 16	18	90.0	20	3 US-09-280-839-8	Sequence 8, Appl
C 17	18	90.0	20	3 US-09-411-977-20	Sequence 20, Appl
C 18	18	90.0	20	3 US-09-479-7298-25	Sequence 25, Appl
C 19	18	90.0	20	3 US-09-257-179-5	Sequence 5, Appl
C 20	18	90.0	20	3 US-09-149-476-5	Sequence 5, Appl
C 21	18	90.0	20	3 US-09-288-143-5	Sequence 5, Appl
C 22	18	90.0	20	3 US-09-487-792-27	Sequence 27, Appl
C 23	18	90.0	20	3 US-09-152-060-5	Sequence 5, Appl
C 24	17.4	87.0	20	3 US-08-837-635-2	Sequence 2, Appl
C 25	16.8	84.0	20	3 US-08-961-527-83	Sequence 83, Appl
C 26	16.4	82.0	22	2 US-08-683-743-24	Sequence 24, Appl
C 27	15.4	77.0	1410	3 US-08-068-392-1	Sequence 1, Appl

C 28	15.4	77.0	1410	4 US-08-396-988-1	Sequence 1, Appl
C 29	15.4	77.0	2200	1 US-08-272-255-21	Sequence 21, Appl
C 30	15.4	77.0	2200	5 PCT-US95-08565-21	Sequence 21, Appl
C 31	15.2	76.0	24	2 US-08-632-5758-56	Sequence 56, Appl
C 32	15.2	76.0	317	4 US-09-732-199A-10	Sequence 10, Appl
C 33	15.2	76.0	321	3 US-09-080-855-25	Sequence 25, Appl
C 34	15.2	76.0	1599	4 US-09-277-565-16	Sequence 16, Appl
C 35	15.2	76.0	7577	4 US-08-961-527-46	Sequence 46, Appl
C 36	15.2	76.0	8898	4 US-08-961-527-69	Sequence 69, Appl
C 37	15	75.0	19	1 US-08-411-020-38	Sequence 38, Appl
C 38	15	75.0	19	1 US-08-411-020-39	Sequence 39, Appl
C 39	15	75.0	19	1 US-08-410-7798-106	Sequence 106, App
C 40	15	75.0	19	1 US-08-410-7798-107	Sequence 107, App
C 41	15	75.0	19	5 PCT-US95-04477-106	Sequence 106, App
C 42	15	75.0	19	5 PCT-US95-04477-107	Sequence 107, App
C 43	14.8	74.0	648	4 US-09-228-986-26	Sequence 26, Appl
C 44	14.4	72.0	1050	1 US-08-204-196A-2	Sequence 2, Appl
C 45	14.4	72.0	1809	1 US-08-204-196A-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-08-394-191-12/c
Sequence 12, Application US/08394191
Patent No. 5616489
GENERAL INFORMATION:
APPLICANT: LEVY, David E.
TITLE OF INVENTION: DNA SEQUENCE WHICH BINDS
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY PROTEINS ACTIVATED IN RESPONSE T
TITLE OF INVENTION: VARIOUS CYTOKINES AND USES THEREOF
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Morrison & Foerster
STREET: 2000 Pennsylvania Avenue
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20006-1812
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/394,191
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/121,931
FILING DATE: September 15, 1993
ATTORNEY/AGENT INFORMATION:
NAME: LIVNAT, SHMUEL
REGISTRATION NUMBER: 33,949
REFERENCE/DOCKET NUMBER: 15661-20010.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 887-1500
TELEFAX: (202) 887-0763
TELEX: 90-4030
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-394-191-12
Query Match 100.0%; Score 20; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 0.086;
Matches 20; Conservative 0; Mismatches 0; Indels 0;

DB 20 CTGATTCCCGCAATGATG 1

|||||

RESULT 2

US-08-458-364-12/C

Sequence 12, Application US/08458364

Patent No. 5648217

GENERAL INFORMATION:

APPLICANT: LEVY, David E.

TITLE OF INVENTION: DNA SEQUENCE WHICH BINDS

TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY PROTEINS ACTIVATED IN RESPONSE TO

TITLE OF INVENTION: VARIOUS CITOKINES AND USES THEREOF

NUMBER OF SEQUENCES: 14

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Morrison & Foerster

STREET: 2000 Pennsylvania Avenue

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20006-1812

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/458,364

FILING DATE: 02-JUN-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/394,191

FILING DATE: 24-FEB-1995

APPLICATION NUMBER: 08/121,931

FILING DATE: September 15, 1993

ATTORNEY/AGENT INFORMATION:

NAME: LIVNAT, SHMUEL

REGISTRATION NUMBER: 33,949

REFERENCE/DOCKET NUMBER: 15661-20010.00

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 887-1500

TELEFAX: (202) 887-0763

TELEX: 90-4030

INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:

LENGTH: 21 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-458-364-12

Query Match 100.0%; Score 20; DB 1; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.086;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CTGATTCCCGCAATGATG 20

|||||

DB 20 CTGATTCCCGCAATGATG 1

|||||

RESULT 3

US-08-837-635-1

Sequence 1, Application US/08837635

Patent No. 6007998

GENERAL INFORMATION:

APPLICANT: ROSENBLUM, CHARLES, I.

APPLICANT: VAN DER PLOEG, LEONARDOUS, H.T.

APPLICANT: OURESHI, SAJJAD, A.

APPLICANT: CULLY, DORIS, F.

APPLICANT: HESS, JOHN W.

APPLICANT: TOTA, MICHAEL, R.

APPLICANT: CHEN, FANG

TITLE OF INVENTION: LEPTIN ASSAY

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:

ADDRESSEE: JOANNE M. GIESSER - MERCK & CO., INC.

STREET: 126 EAST LINCOLN AVENUE - P.O. BOX 2000

CITY: RAHWAY

STATE: NJ

COUNTRY: USA

ZIP: 07065

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM compatible

OPERATING SYSTEM: DOS

SOFTWARE: FASTSEQ for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/837,635

FILING DATE: 21-APR-1997

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/016,051

FILING DATE: 22-APR-1996

APPLICATION NUMBER: 60/031,002

FILING DATE: 15-NOV-1996

ATTORNEY/AGENT INFORMATION:

NAME: GIESSER, JOANNE M

REGISTRATION NUMBER: 32,838

REFERENCE/DOCKET NUMBER: 19686Y

TELECOMMUNICATION INFORMATION:

TELEPHONE: 732-594-3046

TELEFAX: 732-594-4720

TELEX:

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: Other

US-08-837-635-1

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 0.58;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CTGATTCCCGCAATGATG 20

|||||

DB 1 CTGATTCCCGCAATGAGC 20

|||||

RESULT 4

US-09-106-182-16

Sequence 16, Application US/09106182

Patent No. 6046035

GENERAL INFORMATION:

APPLICANT: Shi, Yanguu

APPLICANT: Ruden, Steve

TITLE OF INVENTION: Cardiotrophin-Like Cytokine

NUMBER OF SEQUENCES: 24

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc

STREET: 9410 Key West Ave

CITY: Rockville

STATE: MD

COUNTRY: US

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/106,182

FILING DATE: Herewith

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/051,053
FILING DATE: 30-JUN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF385
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-309-8504
TELEFAX: 301-309-8439
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 86 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-106-182-16

Query Match 90.0%; Score 18; DB 3; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGATTCCCGGAATGAT 19
DB 40 TGATTCCCGGAATGAT 57

RESULT 5

US-09-227-357-3
Sequence 3, Application US/09227357
Patent No. 6342581
GENERAL INFORMATION:
APPLICANT: Fischer et al.
TITLE OF INVENTION: 123 Human Secreted Proteins
FILE REFERENCE: P01021
CURRENT APPLICATION NUMBER: US/09/227,357
CURRENT FILING DATE: 1999-01-08
EARLIER APPLICATION NUMBER: PCT/US98/13684
EARLIER FILING DATE: 1998-07-07
EARLIER APPLICATION NUMBER: 60/051,926
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,793
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,925
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,929
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,803
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,732
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,931
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,932
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,916
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,920
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,733
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/052,795
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,919
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/051,928
EARLIER FILING DATE: 1997-07-08
EARLIER APPLICATION NUMBER: 60/055,722

EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,723
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,948
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,949
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,953
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,950
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,947
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,964
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/056,360
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,684
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,984
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/055,954
EARLIER FILING DATE: 1997-08-18
EARLIER APPLICATION NUMBER: 60/058,785
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,664
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,660
EARLIER FILING DATE: 1997-09-12
EARLIER APPLICATION NUMBER: 60/058,661
EARLIER FILING DATE: 1997-09-12
NUMBER OF SEQ ID NOS: 672
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 86
TYPE: DNA
ORGANISM: Homo sapiens
US-09-227-357-3

Query Match 90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGATTCCCGGAATGAT 19
DB 40 TGATTCCCGGAATGAT 57

RESULT 6

US-09-280-839-6
Sequence 6, Application US/09280839
Patent No. 6365369
GENERAL INFORMATION:
APPLICANT: Endress, Gregory A.
TITLE OF INVENTION: Prostate Specific Secreted Protein
FILE REFERENCE: P4457
CURRENT APPLICATION NUMBER: US/09/280,839
CURRENT FILING DATE: 1999-03-30
EARLIER APPLICATION NUMBER: 60/080,311
EARLIER FILING DATE: 1998-04-01
EARLIER APPLICATION NUMBER: 60/080,898
EARLIER FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 15
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 6
LENGTH: 86
TYPE: DNA
ORGANISM: Homo sapiens
US-09-280-839-6

Query Match 90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTCCCGAATGAT 19
|||||
DB 40 TGATTCCCGAATGAT 57

RESULT 7

US-09-411-977-18
; Sequence 18, Application US/09411977
; Patent No. 6372473
; GENERAL INFORMATION:
; APPLICANT: Moore, Paul A.
; APPLICANT: Ruben, Steven M.
; APPLICANT: Ebner, Reinhard
; TITLE OF INVENTION: Tissue Plasminogen Activator-Like Protease
; FILE REFERENCE: PF378P1
; CURRENT APPLICATION NUMBER: US/09/411,977
; EARLIER FILING DATE: 1999-10-04
; EARLIER APPLICATION NUMBER: 09/084,491
; EARLIER FILING DATE: 1998-05-27
; EARLIER APPLICATION NUMBER: 60/048,000
; EARLIER FILING DATE: 1997-05-28
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 18
; LENGTH: 86
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-411-977-18

Query Match 90.0%; Score 18; DB 4; Length 86;

Best Local Similarity 100.0%; Pred. No. 1.2;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTCCCGAATGAT 19
|||||
DB 40 TGATTCCCGAATGAT 57

RESULT 8

US-09-479-729B-23
; Sequence 23, Application US/09479729B
; Patent No. 6391589
; GENERAL INFORMATION:
; APPLICANT: Olsen, et al
; TITLE OF INVENTION: Human Chemokine Beta-10 Mutant Polypeptides
; FILE REFERENCE: PF504
; CURRENT APPLICATION NUMBER: US/09/479,729B
; EARLIER FILING DATE: 2000-01-07
; EARLIER APPLICATION NUMBER: PCT/US94/09484
; EARLIER FILING DATE: 1994-08-23
; EARLIER APPLICATION NUMBER: 08/458,355
; EARLIER FILING DATE: 1995-06-02
; EARLIER APPLICATION NUMBER: 08/462,967
; EARLIER FILING DATE: 1995-06-05
; EARLIER APPLICATION NUMBER: 60/115,439
; EARLIER FILING DATE: 1999-01-08
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 23
; LENGTH: 86
; TYPE: DNA
; ORGANISM: oligonucleotide
; FEATURE:
; NAME/KEY: primer_bind
; LOCATION: (1)..(86)
; OTHER INFORMATION: 5' primer to generate GAS-SVA0 construct.
US-09-479-729B-23

Query Match 90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTCCCGAATGAT 19
|||||
DB 40 TGATTCCCGAATGAT 57

RESULT 9

US-09-257-179-3
; Sequence 3, Application US/09257179
; Patent No. 6410709
; GENERAL INFORMATION:
; APPLICANT: Ruben et al
; TITLE OF INVENTION: 29 Human Secreted Proteins
; FILE REFERENCE: P2015P1
; CURRENT APPLICATION NUMBER: US/09/257,179
; EARLIER FILING DATE: 1999-02-25
; EARLIER APPLICATION NUMBER: PCT/US98/17709
; EARLIER FILING DATE: 1998-08-27
; EARLIER APPLICATION NUMBER: 60/056,270
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,271
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,247
; EARLIER FILING DATE: 1997-08-29
; EARLIER APPLICATION NUMBER: 60/056,073
; EARLIER FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 128
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-257-179-3

Query Match 90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TGATTCCCGAATGAT 19
|||||
DB 40 TGATTCCCGAATGAT 57

RESULT 10

US-09-149-476-3
; Sequence 3, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; EARLIER FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23

1	EARLIER APPLICATION NUMBER: 60/04/7,597
2	EARLIER FILING DATE: 1997-05-23
3	EARLIER APPLICATION NUMBER: 60/04/7,502
4	EARLIER FILING DATE: 1997-05-23
5	EARLIER APPLICATION NUMBER: 60/04/7,633
6	EARLIER FILING DATE: 1997-05-23
7	EARLIER APPLICATION NUMBER: 60/04/7,583
8	EARLIER FILING DATE: 1997-05-23
9	EARLIER APPLICATION NUMBER: 60/04/7,617
10	EARLIER FILING DATE: 1997-05-23
11	EARLIER APPLICATION NUMBER: 60/04/7,618
12	EARLIER FILING DATE: 1997-05-23
13	EARLIER APPLICATION NUMBER: 60/04/7,503
14	EARLIER FILING DATE: 1997-05-23
15	EARLIER APPLICATION NUMBER: 60/04/7,584
16	EARLIER FILING DATE: 1997-05-23
17	EARLIER APPLICATION NUMBER: 60/04/7,500
18	EARLIER FILING DATE: 1997-05-23
19	EARLIER APPLICATION NUMBER: 60/04/7,587
20	EARLIER FILING DATE: 1997-05-23
21	EARLIER APPLICATION NUMBER: 60/04/7,492
22	EARLIER FILING DATE: 1997-05-23
23	EARLIER APPLICATION NUMBER: 60/04/7,598
24	EARLIER FILING DATE: 1997-05-23
25	EARLIER APPLICATION NUMBER: 60/04/7,596
26	EARLIER FILING DATE: 1997-05-23
27	EARLIER APPLICATION NUMBER: 60/04/7,612
28	EARLIER FILING DATE: 1997-05-23
29	EARLIER APPLICATION NUMBER: 60/04/7,632
30	EARLIER FILING DATE: 1997-05-23
31	EARLIER APPLICATION NUMBER: 60/04/7,601
32	EARLIER FILING DATE: 1997-05-23
33	EARLIER APPLICATION NUMBER: 60/04/3,580
34	EARLIER FILING DATE: 1997-04-11
35	EARLIER APPLICATION NUMBER: 60/04/3,568
36	EARLIER FILING DATE: 1997-04-11
37	EARLIER APPLICATION NUMBER: 60/04/3,314
38	EARLIER FILING DATE: 1997-04-11
39	EARLIER APPLICATION NUMBER: 60/04/3,569
40	EARLIER FILING DATE: 1997-04-11
41	EARLIER APPLICATION NUMBER: 60/04/3,311
42	EARLIER FILING DATE: 1997-04-11
43	EARLIER APPLICATION NUMBER: 60/04/3,674
44	EARLIER FILING DATE: 1997-04-11
45	EARLIER APPLICATION NUMBER: 60/04/3,659
46	EARLIER FILING DATE: 1997-04-11
47	EARLIER APPLICATION NUMBER: 60/04/3,312
48	EARLIER FILING DATE: 1997-04-11
49	EARLIER APPLICATION NUMBER: 60/04/3,313
50	EARLIER FILING DATE: 1997-04-11
51	EARLIER APPLICATION NUMBER: 60/04/3,672
52	EARLIER FILING DATE: 1997-04-11
53	EARLIER APPLICATION NUMBER: 60/04/3,315
54	EARLIER FILING DATE: 1997-04-11
55	EARLIER APPLICATION NUMBER: 60/04/8,974
56	EARLIER FILING DATE: 1997-06-06
57	EARLIER APPLICATION NUMBER: 60/05/6,886
58	EARLIER FILING DATE: 1997-08-22
59	EARLIER APPLICATION NUMBER: 60/05/6,877
60	EARLIER FILING DATE: 1997-08-22
61	EARLIER APPLICATION NUMBER: 60/05/6,889
62	EARLIER FILING DATE: 1997-08-22
63	EARLIER APPLICATION NUMBER: 60/05/6,893

1	EARLIER	FILING DATE:	1997-08-22
2	EARLIER	APPLICATION NUMBER:	60/056,630
3	EARLIER	FILING DATE:	1997-08-22
4	EARLIER	APPLICATION NUMBER:	60/056,878
5	EARLIER	FILING DATE:	1997-08-22
6	EARLIER	APPLICATION NUMBER:	60/056,662
7	EARLIER	FILING DATE:	1997-08-22
8	EARLIER	APPLICATION NUMBER:	60/056,872
9	EARLIER	FILING DATE:	1997-08-22
10	EARLIER	APPLICATION NUMBER:	60/056,903
11	EARLIER	FILING DATE:	1997-08-22
12	EARLIER	APPLICATION NUMBER:	60/056,888
13	EARLIER	FILING DATE:	1997-08-22
14	EARLIER	APPLICATION NUMBER:	60/056,879
15	EARLIER	FILING DATE:	1997-08-22
16	EARLIER	APPLICATION NUMBER:	60/056,880
17	EARLIER	FILING DATE:	1997-08-22
18	EARLIER	APPLICATION NUMBER:	60/056,894
19	EARLIER	FILING DATE:	1997-08-22
20	EARLIER	APPLICATION NUMBER:	60/056,911
21	EARLIER	FILING DATE:	1997-08-22
22	EARLIER	APPLICATION NUMBER:	60/056,636
23	EARLIER	FILING DATE:	1997-08-22
24	EARLIER	APPLICATION NUMBER:	60/056,874
25	EARLIER	FILING DATE:	1997-08-22
26	EARLIER	APPLICATION NUMBER:	60/056,845
27	EARLIER	FILING DATE:	1997-08-22
28	EARLIER	APPLICATION NUMBER:	60/056,884
29	EARLIER	FILING DATE:	1997-08-22
30	EARLIER	APPLICATION NUMBER:	60/056,631
31	EARLIER	FILING DATE:	1997-08-22
32	EARLIER	APPLICATION NUMBER:	60/056,845
33	EARLIER	FILING DATE:	1997-08-22
34	EARLIER	APPLICATION NUMBER:	60/056,892
35	EARLIER	FILING DATE:	1997-08-22
36	EARLIER	APPLICATION NUMBER:	60/057,761
37	EARLIER	FILING DATE:	1997-08-22
38	EARLIER	APPLICATION NUMBER:	60/047,559
39	EARLIER	FILING DATE:	1997-05-23
40	EARLIER	APPLICATION NUMBER:	60/047,559
41	EARLIER	FILING DATE:	1997-05-23
42	EARLIER	APPLICATION NUMBER:	60/047,588
43	EARLIER	FILING DATE:	1997-05-23
44	EARLIER	APPLICATION NUMBER:	60/047,585
45	EARLIER	FILING DATE:	1997-05-23
46	EARLIER	APPLICATION NUMBER:	60/047,586
47	EARLIER	FILING DATE:	1997-05-23
48	EARLIER	APPLICATION NUMBER:	60/047,550
49	EARLIER	FILING DATE:	1997-05-23
50	EARLIER	APPLICATION NUMBER:	60/047,594
51	EARLIER	FILING DATE:	1997-05-23
52	EARLIER	APPLICATION NUMBER:	60/047,589
53	EARLIER	FILING DATE:	1997-05-23
54	EARLIER	APPLICATION NUMBER:	60/047,593
55	EARLIER	FILING DATE:	1997-05-23
56	EARLIER	APPLICATION NUMBER:	60/047,614
57	EARLIER	FILING DATE:	1997-05-23
58	EARLIER	APPLICATION NUMBER:	60/043,578
59	EARLIER	FILING DATE:	1997-04-11
60	EARLIER	APPLICATION NUMBER:	60/043,576
61	EARLIER	FILING DATE:	1997-04-11
62	EARLIER	APPLICATION NUMBER:	60/047,501
63	EARLIER	FILING DATE:	1997-05-23
64	EARLIER	APPLICATION NUMBER:	60/043,670
65	EARLIER	FILING DATE:	1997-04-11
66	EARLIER	APPLICATION NUMBER:	60/056,632
67	EARLIER	FILING DATE:	1997-08-22
68	EARLIER	APPLICATION NUMBER:	60/056,664
69	EARLIER	FILING DATE:	1997-08-22

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; EARLIER APPLICATION NUMBER: 60/056,876
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,881
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,909
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,875
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,862
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,887
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,908
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/048,964
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/057,650
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/056,884
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/057,669
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02

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Query Match          90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      2 TGATTTCCCGAATGAT 19
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DB      40 TGATTTCCCGAATGAT 57

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RESULT 11
US-09-288-143-3
; Sequence 3, Application US/09288143
; Patent No. 6433139
; GENERAL INFORMATION:
; APPLICANT: Brewer et al.
; TITLE OF INVENTION: 53 Human Secreted Proteins
; FILE REFERENCE: P2018p1
; CURRENT APPLICATION NUMBER: US/09/288,143
; EARLIER FILING DATE: 1999-04-08
; EARLIER APPLICATION NUMBER: PCT/US98/21142
; EARLIER FILING DATE: 1998-10-08
; EARLIER APPLICATION NUMBER: 60/061,463
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/061,529
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/071,498
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/061,527
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/061,536
; EARLIER FILING DATE: 1997-10-09
; EARLIER APPLICATION NUMBER: 60/061,532
; EARLIER FILING DATE: 1997-10-09
; NUMBER OF SEQ ID NOS: 219
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-288-143-3

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Query Match          90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      2 TGATTTCCCGAATGAT 19

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DB      40 TGATTTCCCGAATGAT 57

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RESULT 12
US-09-487-792-25
; Sequence 25, Application US/09487792
; Patent No. 6433145
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; TITLE OF INVENTION: Keratinocyte Derived Interferon
; FILE REFERENCE: P482p1
; CURRENT APPLICATION NUMBER: US/09/487,792
; EARLIER FILING DATE: 2000-01-20
; EARLIER APPLICATION NUMBER: 60/093,643
; EARLIER FILING DATE: 1998-07-21
; EARLIER APPLICATION NUMBER: PCT/US99/16424
; EARLIER FILING DATE: 1999-07-21
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 25
; LENGTH: 86
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-487-792-25

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Query Match          90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      2 TGATTTCCCGAATGAT 19
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DB      40 TGATTTCCCGAATGAT 57

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RESULT 13
US-09-152-060-3
; Sequence 3, Application US/09152060
; Patent No. 6448230
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 28 Human Secreted Proteins
; FILE REFERENCE: P2003p1.US
; CURRENT APPLICATION NUMBER: US/09/152,060
; EARLIER FILING DATE: 1998-09-11
; EARLIER APPLICATION NUMBER: PCT/US98/04858
; EARLIER FILING DATE: 1998-03-12
; EARLIER APPLICATION NUMBER: 60/040,762
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: 60/040,710
; EARLIER FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: 60/050,934
; EARLIER FILING DATE: 1997-05-30
; EARLIER APPLICATION NUMBER: 60/048,100
; EARLIER FILING DATE: 1997-05-30
; EARLIER APPLICATION NUMBER: 60/048,357
; EARLIER FILING DATE: 1997-05-30
; EARLIER APPLICATION NUMBER: 60/048,189
; EARLIER FILING DATE: 1997-05-30
; EARLIER APPLICATION NUMBER: 60/057,765
; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/048,970
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/068,368
; EARLIER FILING DATE: 1997-12-19
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 86
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-152-060-3

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Query Match          90.0%; Score 18; DB 4; Length 86;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      2 TGATTCCCGGAATGAT 19
DB      40 TGATTCCCGGAATGAT 57

RESULT 14
US-09-106-182-18
; Sequence 18, Application US/09106182
; Patent No. 6046035
; GENERAL INFORMATION:
; APPLICANT: Shi, Yangu
; APPLICANT: Ruben, Steve
; TITLE OF INVENTION: Cardiostrophin-like Cytokine
; NUMBER OF SEQUENCES: 24
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc
; STREET: 9410 Key West Ave
; CITY: Rockville
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/106,182
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/051,053
; FILING DATE: 30-JUN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Brooks, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF385
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 271 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-09-106-182-18

Query Match          90.0%; Score 18; DB 3; Length 271;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      2 TGATTCCCGGAATGAT 19
DB      36 TGATTCCCGGAATGAT 53

RESULT 15
US-09-227-357-5
; Sequence 5, Application US/09227357
; Patent No. 6342581
; GENERAL INFORMATION:
; APPLICANT: Fischer et al.
; TITLE OF INVENTION: 123 Human Secreted Proteins
; FILE REFERENCE: P2010P1
; CURRENT APPLICATION NUMBER: US/09/227,357
; CURRENT FILING DATE: 1999-01-08
; EARLIER APPLICATION NUMBER: PCT/US98/13664

; EARLIER FILING DATE: 1998-07-07
; EARLIER APPLICATION NUMBER: 60/051,926
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,793
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,925
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,929
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,803
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,732
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,931
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,932
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; EARLIER APPLICATION NUMBER: 60/051,916
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,930
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,918
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,920
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,733
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/052,795
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,919
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/051,928
; EARLIER FILING DATE: 1997-07-08
; EARLIER APPLICATION NUMBER: 60/055,722
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,723
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,948
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,949
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; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,950
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,947
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; EARLIER FILING DATE: 1997-08-18
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; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,954
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/058,785
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,664
; EARLIER FILING DATE: 1997-09-12
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; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,661
; EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-227-357-5
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Query Match 90.0%; Score 18; DB 4; Length 271;
 Best Local Similarity 100.0%; Pred. No. 1.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 36 TGATTTCGCCGAAATGAT 53

Search completed: June 26, 2003, 16:21:12
 Job time : 32.288 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 10:58:25 ; Search time 30.2174 Seconds
(without alignments)
.202.980 Million cell updates/sec

Title: US-09-355-254f-21

Perfect score: 20

Sequence: 1 gttattccagaaaggaac 20

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Issued_Patents.NA.*

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3: /cgn2_6/ptodata/1/ina/6A.COMB.seq.*

4: /cgn2_6/ptodata/1/ina/6B.COMB.seq.*

5: /cgn2_6/ptodata/1/ina/PCMus.COMB.seq.*

6: /cgn2_6/ptodata/1/ina/backfiles.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	1 US-08-276-099A-3	Sequence 3, Appl1
2	20	100.0	20	1 US-08-393-333-3	Sequence 3, Appl1
3	20	100.0	20	1 US-08-408-318-3	Sequence 3, Appl1
4	20	100.0	20	1 US-08-781-890-3	Sequence 3, Appl1
5	20	100.0	20	1 US-08-839-164-3	Sequence 3, Appl1
6	20	100.0	20	4 US-09-511-625B-9	Sequence 9, Appl1
7	20	100.0	20	4 US-09-511-625B-14	Sequence 14, Appl1
8	20	100.0	30	4 US-08-956-653A-25	Sequence 25, Appl1
9	20	100.0	100	4 US-09-522-217-59	Sequence 59, Appl1
10	20	100.0	100	4 US-09-522-217-60	Sequence 60, Appl1
11	18.4	92.0	62	4 US-09-003-903-5	Sequence 5, Appl1
12	17.4	87.0	26	4 US-08-369-796-32	Sequence 22, Appl1
13	17	85.0	17	1 US-08-852-091-22	Sequence 22, Appl1
14	17	85.0	17	2 US-09-178-973B-14	Sequence 14, Appl1
15	17	85.0	17	4 US-09-419-568F-14	Sequence 14, Appl1
16	17	85.0	17	4 US-09-354-243B-14	Sequence 14, Appl1
17	18	85.0	17	5 PCT-US95-17025-22	Sequence 22, Appl1
18	17	85.0	49	4 US-08-956-653A-24	Sequence 24, Appl1
19	17	85.0	49	4 US-08-956-653A-22	Sequence 22, Appl1
20	16.8	84.0	1001	4 US-09-641-638-104	Sequence 104, App
21	16.4	82.0	36531	4 US-09-738-894A-3	Sequence 17, Appl1
22	16	80.0	25	2 US-08-820-754-17	Sequence 17, Appl1
23	16	80.0	25	3 US-08-956-652-17	Sequence 17, Appl1
24	16	80.0	25	3 US-08-956-869-17	Sequence 17, Appl1
25	16	80.0	25	3 US-08-948-547-17	Sequence 17, Appl1
26	16	80.0	25	4 US-08-956-653A-17	Sequence 17, Appl1
27	16	80.0	30	1 US-08-386-728-4	Sequence 4, Appl1

28	16	80.0	30	5 PCT-US96-01768-4	Sequence 4, Appl1
c 29	15.8	79.0	1364	2 US-08-872-302-3	Sequence 2, Appl1
30	15.8	79.0	1383	1 US-08-289-709-2	Sequence 2, Appl1
31	15.8	79.0	1383	1 US-08-602-656-2	Sequence 2, Appl1
c 32	15.8	79.0	98844	4 US-09-791-211-10	Sequence 10, Appl1
c 33	15.4	77.0	1600	4 US-07-861-458C-37	Sequence 37, Appl1
c 34	15.4	77.0	1607	6 5196333-3	Patent No. 5196333
c 35	15.4	77.0	10614	1 US-08-135-511-35	Sequence 35, Appl1
c 36	15.4	77.0	10614	1 US-08-187-453-35	Sequence 35, Appl1
37	15.2	76.0	243	4 US-09-134-001C-1717	Sequence 1717, Ap
38	15.2	76.0	8789	1 US-08-328-254-5	Sequence 5, Appl1
39	15.2	76.0	10136	1 US-08-353-700-2	Sequence 2, Appl1
40	15.2	76.0	10136	5 PCT-US95-16216-2	Sequence 2, Appl1
c 41	15	75.0	15	1 US-08-141-499A-13	Sequence 13, Appl1
c 42	15	75.0	15	1 US-08-467-940-13	Sequence 13, Appl1
c 43	15	75.0	15	1 US-08-633-772-13	Sequence 13, Appl1
c 44	15	75.0	1266	4 US-09-134-078-3	Sequence 3, Appl1
45	15	75.0	7577	4 US-08-961-527-46	Sequence 46, Appl1

ALIGNMENTS

RESULT 1
US-08-276-099A-3
Sequence 3, Application US/08276099A
Patent No. 5591825
GENERAL INFORMATION:
APPLICANT: McKnight, Steven L
APPLICANT: Hou, Jinhao
TITLE OF INVENTION: INTERLEUKIN-4 SIGNAL TRANSDUCERS AND
TITLE OF INVENTION: BINDING ASSAYS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSER: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/276,099A
FILING DATE: 15-JUL-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard Aron
REGISTRATION NUMBER: 36,627
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-276-099A-3
Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
c 1 GTATTTCACCAAGAAC 20
1 GTATTTCACCAAGAAC 20

RESULT 2
US-08-393-333-3
Sequence 3, Application US/08393333
Patent No. 5618693
GENERAL INFORMATION:
APPLICANT: McKnight, Steven L
APPLICANT: Hou, Jinhao
APPLICANT: Schindler, Ulrike
TITLE OF INVENTION: INTERLEUKIN-2 SIGNAL TRANSDUCERS AND
TITLE OF INVENTION: BINDING ASSAYS
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/393,333
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-60778/Rao
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-393-333-3

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTATTCCGAGAAAGAAC 20
DB 1 GTATTCCGAGAAAGAAC 20

RESULT 3
US-08-408-318-3
Sequence 3, Application US/08408318
Patent No. 5639858
GENERAL INFORMATION:
APPLICANT: Hoeg, Timothy
TITLE OF INVENTION: Human Signal Transducers and Binding
TITLE OF INVENTION: Assays
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herber
STREET: 850 Hansen Way, #200
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/408,318
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-60845
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-494-8700
TELEFAX: 415-494-8771
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-408-318-3

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTATTCCGAGAAAGAAC 20
DB 1 GTATTCCGAGAAAGAAC 20

RESULT 4
US-08-781-890-3
Sequence 3, Application US/08781890
Patent No. 5710266
GENERAL INFORMATION:
APPLICANT: McKnight, Steven L
APPLICANT: Hou, Jinhao
TITLE OF INVENTION: INTERLEUKIN-4 SIGNAL TRANSDUCERS AND
TITLE OF INVENTION: BINDING ASSAYS
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/781,890
FILING DATE: 05-JAN-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,099
FILING DATE: 15-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Osman, Richard A
REGISTRATION NUMBER: 36,627
REFERENCE/DOCKET NUMBER: A-59451-1/Rao
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid

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;; STRANDEDNESS: double
;; TOPOLOGY: linear
;; MOLECULE TYPE: CDNA
US-08-781-890-3

Query Match
Best Local Similarity 100.0%; Score 20; DB 1; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GTATTCCAGAAAAGAAC 20

RESULT 5
US-08-839-164-3
; Sequence 3, Application US/08839164
; Patent No. 5756700
; GENERAL INFORMATION:
; APPLICANT: Hoey, Timothy
; TITLE OF INVENTION: Human Signal Transducers and Binding
; TITLE OF INVENTION: Assays
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herber
; STREET: 850 Hansen Way, #200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/839,164
; FILING DATE: 23-APR-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/408,318
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Osman, Richard A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: A-60845
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-494-8700
; TELEFAX: 415-494-8771
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-839-164-3

Query Match
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GTATTCCAGAAAAGAAC 20

RESULT 6
US-09-511-625B-9
; Sequence 9, Application US/09511625B
; Patent No. 6368828
; GENERAL INFORMATION:
; APPLICANT: Larocheille, William J.
```

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;; APPLICANT: Patel, Bhavlin
;; APPLICANT: Pierce, Jacalyn H.
; TITLE OF INVENTION: ATTENUATED AND DOMINANT NEGATIVEVARIANT
; TITLE OF INVENTION: CDNAS OF STAT6; STAT6b AND STAT6c
; FILE REFERENCE: 14014.0300u1
; CURRENT APPLICATION NUMBER: US/09/511,625B
; CURRENT FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: PCT/US98/17821
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/070,397
; PRIOR FILING DATE: 1998-01-05
; PRIOR APPLICATION NUMBER: 60/056,075
; PRIOR FILING DATE: 1997-08-27
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of artificial Sequence./No. 6368828e -
US-09-511-625B-9

Query Match
Best Local Similarity 100.0%; Score 20; DB 4; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTATTCCAGAAAAGAAC 20
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Db 1 GTATTCCAGAAAAGAAC 20

RESULT 7
US-09-511-625B-14
; Sequence 14, Application US/09511625B
; Patent No. 6368828
; GENERAL INFORMATION:
; APPLICANT: Larocheille, William J.
; APPLICANT: Patel, Bhavlin
; APPLICANT: Pierce, Jacalyn H.
; TITLE OF INVENTION: ATTENUATED AND DOMINANT NEGATIVEVARIANT
; TITLE OF INVENTION: CDNAS OF STAT6; STAT6b AND STAT6c
; FILE REFERENCE: 14014.0300u1
; CURRENT APPLICATION NUMBER: US/09/511,625B
; CURRENT FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: PCT/US98/17821
; PRIOR FILING DATE: 1998-08-27
; PRIOR APPLICATION NUMBER: 60/070,397
; PRIOR FILING DATE: 1998-01-05
; PRIOR APPLICATION NUMBER: 60/056,075
; PRIOR FILING DATE: 1997-08-27
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of artificial Sequence./No. 6368828e -
US-09-511-625B-14

Query Match
Best Local Similarity 100.0%; Score 20; DB 4; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTATTCCAGAAAAGAAC 20
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Db 1 GTATTCCAGAAAAGAAC 20

RESULT 8
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US-08-956-653A-25
; Sequence 25, Application US/08956653A
; Patent No. 6338949
; GENERAL INFORMATION:
; APPLICANT: Darnell Jr., James E.
; APPLICANT: Schindler, Christian W.
; APPLICANT: Fu, Xian-Yuan
; APPLICANT: Wen, Zilong
; APPLICANT: Zhong, Zhong
; TITLE OF INVENTION: RECEPTOR RECOGNITION FACTORS, PROTEIN
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Klauber & Jackson
; STREET: 411 Hackensack Avenue
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,653A
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/212,185
; FILING DATE: 11-MAR-1994
; APPLICATION NUMBER: US 07/980,498
; FILING DATE: 23-NOV-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/854,296
; FILING DATE: 19-MAR-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO US93/02569
; FILING DATE: 19-MAR-1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/126,588
; FILING DATE: 24-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-195
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201 487-5800
; TELEFAX: 201 343-1684
; TELEX: 133521
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; DESCRIPTION: oligonucleotide probe for R1.2
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; US-08-956-653A-25

Query Match 100.0%; Score 20; DB 4; Length 30;
Best Local Similarity 100.0%; Pred. No. 0.18;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 GTATTCCAGAAAGAAC 20
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Db 6 GTATTCCAGAAAGAAC 25

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; Sequence 59, Application US/09522217
; Patent No. 6307024
; GENERAL INFORMATION:
; APPLICANT: No. 6307024ak, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprechet, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Holly, Richard D.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA11 LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/09/522,217
; CURRENT FILING DATE: 2000-03-09
; EARLIER APPLICATION NUMBER: US 60/123,547
; EARLIER FILING DATE: 1999-03-09
; EARLIER APPLICATION NUMBER: US 60/123,904
; EARLIER FILING DATE: 1999-03-11
; EARLIER APPLICATION NUMBER: US 60/142,013
; EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 100
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide ZC12749
; US-09-522-217-59

Query Match 100.0%; Score 20; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 GTATTCCAGAAAGAAC 20
    ||||||||||||||||
Db 44 GTATTCCAGAAAGAAC 63

RESULT 10
US-09-522-217-60/c
; Sequence 60, Application US/09522217
; Patent No. 6307024
; GENERAL INFORMATION:
; APPLICANT: No. 6307024ak, Julia E.
; APPLICANT: Presnell, Scott R.
; APPLICANT: Sprechet, Cindy A.
; APPLICANT: Foster, Donald C.
; APPLICANT: Holly, Richard D.
; APPLICANT: Gross, Jane A.
; APPLICANT: Johnston, Janet V.
; APPLICANT: Nelson, Andrew J.
; APPLICANT: Dillon, Stacey R.
; APPLICANT: Hammond, Angela K.
; TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA11 LIGAND
; FILE REFERENCE: 99-16
; CURRENT APPLICATION NUMBER: US/09/522,217
; CURRENT FILING DATE: 2000-03-09
; EARLIER APPLICATION NUMBER: US 60/123,547
; EARLIER FILING DATE: 1999-03-09
; EARLIER APPLICATION NUMBER: US 60/123,904
; EARLIER FILING DATE: 1999-03-11
; EARLIER APPLICATION NUMBER: US 60/142,013
; EARLIER FILING DATE: 1999-07-01
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 60
; LENGTH: 100
; TYPE: DNA
; ORGANISM: Artificial Sequence

```



```
;; FEATURE:
;; OTHER INFORMATION: Oligonucleotide ZC12748
US-09-522-217-60

Query Match      100.0%; Score 20; DB 4; Length 100;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GTATTCCAGAAAAGGAC 20
        |||
Db      61 GTATTCCAGAAAAGGAC 42

RESULT 11
US-09-003-903-5
; Sequence 5, Application US/09003903
; Patent No. 6265160
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America
; APPLICANT: as Represented by the Secretary, Department of
; APPLICANT: Health and Human Services
; APPLICANT: Leonard, Warren J.
; TITLE OF INVENTION: METHOD OF IDENTIFYING INHIBITORS OF THE
; FILE REFERENCE: NIH18.001C1
; CURRENT APPLICATION NUMBER: US/09/003.903
; CURRENT FILING DATE: 1998-01-07
; EARLIER APPLICATION NUMBER: PCT/US96/11206
; EARLIER FILING DATE: 1996-07-02
; EARLIER APPLICATION NUMBER: 60/000.971
; EARLIER FILING DATE: 1995-07-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 62
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide
US-09-003-903-5

Query Match      92.0%; Score 18.4; DB 4; Length 62;
Best Local Similarity 95.0%; Pred. No. 1.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 GTATTCCAGAAAAGGAC 20
        |||
Db      5 GTATTCCAGAAAAGGATC 24

RESULT 12
US-09-003-903-1
; Sequence 1, Application US/09003903
; Patent No. 6265160
; GENERAL INFORMATION:
; APPLICANT: The Government of the United States of America
; APPLICANT: as Represented by the Secretary, Department of
; APPLICANT: Health and Human Services
; APPLICANT: Leonard, Warren J.
; TITLE OF INVENTION: METHOD OF IDENTIFYING INHIBITORS OF THE
; FILE REFERENCE: NIH18.001C1
; CURRENT APPLICATION NUMBER: US/09/003.903
; CURRENT FILING DATE: 1998-01-07
; EARLIER APPLICATION NUMBER: PCT/US96/11206
; EARLIER FILING DATE: 1996-07-02
; EARLIER APPLICATION NUMBER: 60/000.971
; EARLIER FILING DATE: 1995-07-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 26
; TYPE: DNA

;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Oligonucleotide
US-09-003-903-1

Query Match      87.0%; Score 17.4; DB 4; Length 26;
Best Local Similarity 94.7%; Pred. No. 3.5;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY      1 GTATTCCAGAAAAGGA 19
        |||
Db      6 GTATTCCAGAAAAGGA 24

RESULT 13
US-08-369-796-22
; Sequence 22, Application US/08369796
; Patent No. 5716622
; GENERAL INFORMATION:
; APPLICANT: James E. Darnell, Jr.
; APPLICANT: Zilong Wen
; APPLICANT: Curt M. Horvath
; APPLICANT: Zhong Zhong
; TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
; FILE REFERENCE: TRANSDDCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
; NUMBER OF SEQUENCES: 39
; CORRESPONDENCE ADDRESS:
; ADDRESS: 411 Hackensack Avenue
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/369,796
; FILING DATE: 06-JAN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Jackson Esq., David A.
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-116
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201 487-5800
; TELEFAX: 201 343-1684
; TELEX: 133521
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA synthetic probe
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
US-08-369-796-22

Query Match      85.0%; Score 17; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GTATTCCAGAAAAGG 17
        |||
Db      1 GTATTCCAGAAAAGG 17

RESULT 14
US-08-852-091-22
; Sequence 22, Application US/08852091
```

Patent No. 5883228
GENERAL INFORMATION:
APPLICANT: James E. Darnell, Jr.
APPLICANT: Zilong Wen
APPLICANT: Curt M. Horvath
APPLICANT: Zhong Zhong
TITLE OF INVENTION: FUNCTIONALLY ACTIVE REGIONS OF SIGNAL
TITLE OF INVENTION: TRANSDUCER AND ACTIVATOR OF TRANSCRIPTION (STAT) PROTEINS
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Klauber & Jackson
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/852,091
FILING DATE: 06-MAY-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/369,796
FILING DATE: 06-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Jackson Esq., David A.
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-116
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201 487-5800
TELEFAX: 201 343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA synthetic probe
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-852-091-22

Query Match 85.0%; Score 17; DB 2; Length 17;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATTTCGCCAGAAAAG 17
DB 1 GATTTCGCCAGAAAAG 17

RESULT 15
US-09-178-973B-14/C
Sequence 14, Application US/09178973B
Patent No. 6274710
GENERAL INFORMATION:
APPLICANT: Dumoutier, Laure
APPLICANT: Louhed, Jamila
APPLICANT: Renaud, Jean-Christophe
TITLE OF INVENTION: Isolated Nucleic Acid Molecules which Encode T Cell Inducible Fac
TITLE OF INVENTION: (Tifs)
FILE REFERENCE: LUD 5543
CURRENT APPLICATION NUMBER: US/09/178,973B
CURRENT FILING DATE: 1998-10-26
NUMBER OF SEQ ID NOS: 17
SEQ ID NO 14
LENGTH: 17

TYPE: DNA
ORGANISM: Homo sapiens
US-09-178-973B-14

Query Match 85.0%; Score 17; DB 4; Length 17;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GATTTCGCCAGAAAAG 17
DB 17 GATTTCGCCAGAAAAG 1

Search completed: June 26, 2003, 16:21:14
Job time : 31.2888 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 11:19:15 ; Search time 1529.13 Seconds
(without alignments)
211.826 Million cell updates/sec

Title: US-09-355-254F-8

Perfect score: 20

Sequence: 1 gattgcctgacgcagagag 20

Scoring table: IDENTITY_NDC
Gapop 10.0, Gapext 1.0

Searched: 16154066 segs, 8097743376 residues 32308132

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: em_estb:.*
2: em_esthm:.*
3: em_estln:.*
4: em_estlu:.*
5: em_estov:.*
6: em_estpl:.*
7: em_estro:.*
8: em_hlc:.*
9: gb_estl:.*
10: gb_est2:.*
11: gb_hlc:.*
12: gb_est3:.*
13: gb_est4:.*
14: gb_est5:.*
15: em_estfun:.*
16: em_estom:.*
17: gb_gss:.*
18: em_gss_hum:.*
19: em_gss_inv:.*
20: em_gss_pln:.*
21: em_gss_vrt:.*
22: em_gss_fun:.*
23: em_gss_mam:.*
24: em_gss_mus:.*
25: em_gss_other:.*
26: em_gss_pro:.*
27: em_gss_rtd:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17.4	87.0	509	17	AZ456210 1M0258J21
2	17.4	87.0	525	17	AZ930991 474.dhz60
3	16.8	84.0	580	12	BF571725 602076288
4	16.8	84.0	581	12	BG529082 602579184
5	16.8	84.0	812	12	BE855809 601678202
6	16.8	84.0	818	12	BG121636 602351594

7	16.8	84.0	984	17	AG085708
8	16.4	82.0	421	9	AI446142
9	16.4	82.0	455	9	AI377721
10	16.4	82.0	462	9	AI147973
11	16.4	82.0	468	9	AA524774
12	16.4	82.0	476	12	BF439459
13	16.4	82.0	570	17	AQ617221
14	16.4	82.0	630	17	AQ0392594
15	16.4	82.0	722	10	AV764299
16	16.4	82.0	737	12	BG707030
17	16.4	82.0	1094	17	CNS05K18
18	16.4	82.0	473	10	BB697276
19	16.4	82.0	668	17	BH306678
20	16.4	82.0	1032	17	CNS01V06
21	15.8	79.0	123	9	AA750965
22	15.8	79.0	281	9	AA795454
23	15.8	79.0	292	10	BB306386
24	15.8	79.0	304	10	BE191014
25	15.8	79.0	383	14	H64068
26	15.8	79.0	410	12	BF709136
27	15.8	79.0	424	10	AV407792
28	15.8	79.0	435	17	B41297
29	15.8	79.0	442	10	AW211525
30	15.8	79.0	444	13	BM174442
31	15.8	79.0	452	17	AQ179770
32	15.8	79.0	484	17	AQ460036
33	15.8	79.0	488	14	BQ312839
34	15.8	79.0	510	17	AO809522
35	15.8	79.0	528	17	AQ471562
36	15.8	79.0	529	17	BH200967
37	15.8	79.0	533	10	AW671751
38	15.8	79.0	543	12	BE862853
39	15.8	79.0	553	17	AO672151
40	15.8	79.0	596	12	BF374971
41	15.8	79.0	605	17	AO532396
42	15.8	79.0	612	10	AW841675
43	15.8	79.0	612	17	AZ083796
44	15.8	79.0	613	17	AQ305574
45	15.8	79.0	613	17	AQ305574

ALIGNMENTS

RESULT 1
LOCUS AZ456210 509 bp DNA linear GSS 04-OCT-2000
DEFINITION 1M0258J21R Mouse 10kb plasmid UOCCIM library Mus musculus genomic
ACCESSION AZ456210
VERSION AZ456210.1 GI:10614335
KEYWORDS GSS.
SOURCE house mouse.
ORGANISM Mus musculus.
REFERENCE 1 (bases 1 to 509)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Baecorn,T., Duval,B., Hamill,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00

Plate: 0258 row: J column: 21
Seq primer: CACACAGAAACAGCTATACCC
Class: Plasmid ends
High quality sequence stop: 509.
Location/Qualifiers

1. 509

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUCG1M0258J21"

/clone.lib="Mouse 10kb plasmid UUCG1M library"

/sex="Male"

/lab.host="E. coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g11473211419b1AF129072.1), a copy-number inducible derivative of Plasmid RI. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 176 a 93 c 132 g 108 t

ORIGIN

Query Match 87.0% Score 17.4; DB 17; Length 509;
Best Local Similarity 94.7% Pred. No. 8.7e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 ATTCGCTGACGTGACAGAG 20

DB 226 ATTCGCTGATGTCAGAGAG 244

RESULT 2
LOCUS A2930991/c 525 bp DNA linear GSS 01-APR-2001
DEFINITION 474.dhz60H07.s1 Saccharomyces unisporus NRRL Y-1556 Saccharomyces unisporus genomic clone 474.dhz60H07.s1, DNA sequence.
ACCESSION A2930991
VERSION A2930991.1 GI:13501901
KEYWORDS GSS.
SOURCE Saccharomyces unisporus.
ORGANISM Saccharomyces unisporus
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes; Saccharomycetaceae; Saccharomyces.

REFERENCE 1 (bases 1 to 525)
Clifton,P.F., Hillier,L.W., Fulton,L., Graves,T., Miner,T., Gish,W.R., Waterston,R.H. and Johnston,M.

Surveying Saccharomyces genomes to identify functional elements by comparative DNA sequence analysis

JOURNAL Unpublished (2001)

COMMENT
Contact: Johnston M
Department of Genetics
Washington University Medical School
Box 8232, 4566 Scott Ave., St. Louis, MO 63110, USA
Tel: 314 362 2735
Fax: 314 362 7855
Email: mjgenetics.wustl.edu
Class: Random plasmid subclone.
Location/Qualifiers
1..525
/organism="Saccharomyces unisporus"

FEATURES

source

/strain="NRRL Y-1556 (CBS 398)"
/db_xref="taxon:27294"
/clone="474.dhz60H07.s1"
/clone.lib="Saccharomyces unisporus NRRL Y-1556"
/note="Random genomic sequence"

BASE COUNT 133 a 119 c 77 g 196 t

ORIGIN

Query Match 87.0% Score 17.4; DB 17; Length 525;
Best Local Similarity 94.7% Pred. No. 8.8e+02;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GATTGCTGACGTGACAGAGA 19

DB 384 GATTGCTGACGTGACAGAA 366

RESULT 3
LOCUS BF571725/c 580 bp mRNA linear EST 12-DEC-2000
DEFINITION 602076288F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4243820 5', mRNA sequence.
ACCESSION BF571725
VERSION BF571725.1 GI:11645437
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 580)
NIH-MGC http://mhc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgrabs-r@mail.nih.gov
Tissue Procurement: ATCC/DC/DP
cDNA Library Preparation: CLOUTIER Laboratories, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNT)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNT at:
http://image.llnl.gov
Plate: LHCMI054 row: O column: 21
High quality sequence start: 6
High quality sequence stop: 488.
Location/Qualifiers
1..580
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:4243820"
/clone.lib="NIH_MGC_62"
/tissue_type="melanotic melanoma, high MDR"
/lab.host="DH10B (T1 phage-resistant)"
/note="organ: skin; Vector: pDNR-LTB (Clontech); Site:1: 5'11 (ggccgctcggcc); Site:2: 5'11 (ggccatcattggcc); Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGCCATATGAGCC-3' and 3' adaptor sequence: 5'-ATTCAGAGCGCCGCGCGCATG-drr(30)BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.75 kb (range 0.9-4.0 kb). 15/15 clones contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."

BASE COUNT 131 a 139 c 150 g 160 t

ORIGIN

FEATURES

source

Query Match 84.0% Score 16.8; DB 12; Length 580;
Best Local Similarity 90.0% Pred. No. 1.7e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GATTGCTGACGTGACAGAG 20

|||||

DB	172	GATTGCGCTGAGCTCAGAGAG	153
RESULT 4	BG529082	581 bp	mRNA
LOCUS	602579184F1	NIH_MGC_60	Human sapiens cDNA clone IMAGE:4713261 5'
DEFINITION	mRNA sequence.		
ACCESSION	BG529082		
VERSION	BG529082.1	GI:13520619	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.		
AUTHORS	1 (bases 1 to 581)		
TITLE	NIH-MGC http://mgc.ncl.nih.gov/.		
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)		
COMMENT	Unpublished (1999)		
	Contact: Robert Strausberg, Ph.D.		
	Email: cgapds@mail.nih.gov		
	Tissue Procurement: DCC/DMP		
	cDNA Library Preparation: CLONTECH Laboratories, Inc.		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)		
	DNA Sequencing by: Incyte Genomics, Inc.		
	Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LIML at:		
	http://image.liml.gov		
	Plate: L10M1556 row: 9 column: 22		
	High quality sequence stop: 566.		
FEATURES	Location/Qualifiers		
source	1..581		
	/organism="Homo sapiens"		
	/db_xref="taxon:9606"		
	/clone="IMAGE:4713261"		
	/clone_lib="NIH_MGC_60"		
	/tissue_type="adenocarcinoma"		
	/lab_host="DH10B (T1 phage-resistant)"		
	/note="Organ: prostate; Vector: pDNR-LIB (Clontech); Site 1: SfiI (ggcgctcgcc); Site 2: SfiI (ggcgctcgcc)"		
	; Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-ATTCTAGAGCGCCGAGCGCGGCATG-3' and 3' adaptor sequence: 5'-CACGCCCATATGCGC-3' (where B = A, C, G, or T). Average insert size 1.5 kb (range 0.9-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA). Note: this is a NIH_MGC Library."		
BASE COUNT	175 a	110 c	100 g
ORIGIN	196 t		
Query Match	84.0%	Score 16.8	DB 12
Best Local Similarity	90.0%	Pred. No. 1.7e+03	Length 581
Matches 18	Conservative 0	Mismatches 2	Indels 0
	Gaps 0		
OY	1	GATTGCGCTGAGCTCAGAGAG	20
DB	56	GATTGCGCTGAGCTCAGAGAG	37
RESULT 5	BE865809	812 bp	mRNA
LOCUS	601678202P1	NIH_MGC_53	Human sapiens cDNA clone IMAGE:3960888 5'
DEFINITION	mRNA sequence.		
ACCESSION	BE865809		
VERSION	BE865809.1	GI:10314585	
KEYWORDS	EST.		
SOURCE	human.		
ORGANISM	Homo sapiens		
	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		

REFERENCE	Mammalia; Eutheria; Primates; Carnivora; Homnidae; Homo.
AUTHORS	NIH-MGC http://mgc.nci.nih.gov/.
TITLE	National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL	Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaabs-remail.nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Clontech Laboratories, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov Plate: LCM84 row: C column: 01 High quality sequence stop: 478.
FEATURES	
source	Location/Qualifiers 1..812 /organism="Homo sapiens" /db_xref="taxon:9606" /clone="IMAGE:3960888" /clone_id="NIH-MGC_53" /tissue_type="carcinoma, cell line" /lab_host="DH10B (T1 phage-resistant)" /note="Organ: bladder; Vector: pDNR-LIB (Clontech); Site_1: Sfil (ggccgcctggcc); Site_2: Sfil (ggccatagcc); Double-stranded cDNA was prepared from cell line RNA. 5' and 3' adaptors were used in cloning as follows: 5' adaptor sequence: 5'-CACGGCCATTATGCCC-3' and 3' adaptor sequence: 5'-ATCTGAGAGCCGAGCGCGCCGACATG-dT(30)-BN-3' (where B = A, C, or G and N = A, C, G, or T). Average insert size 1.55 kb (range 0.9-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratories (Palo Alto, CA)."
BASE COUNT	211 a 219 c 161 g 221 t
ORIGIN	
Query Match	84.0%; Score 16.8; DB 12; Length 812;
Best Local Similarity	90.0%; Pred. NO. 2e+03;
Matches	18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Db	1 GATGCGCTGACGTCAGAG 20 381 GATGCGCTGAGCGAGAG 362
RESULT 6	
BG121636/c	818 bp, mRNA linear EST 30-JAN-2001
LOCUS	602351594F1 NIH-MGC_90 Homo sapiens cDNA clone IMAGE:444935 5',
DEFINITION	mRNA sequence.
ACCESSION	BG121636
VERSION	BG121636.1 GI:12615145
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Carnivora; Homnidae; Homo.
TITLE	NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT	Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgaabs-remail.nih.gov Tissue Procurement: ATCC CDNA Library Preparation: Life Technologies, Inc. CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LNL at: image.lnl.gov Plate: LCM10234 row: K column: 24 High quality sequence stop: 559.

```

FEATURES
  source
    Location/Qualifiers
      1..818
        /organism="Homo sapiens"
        /db_xref="taxon:9606"
        /clone="IMAGE:44935"
        /clone_1lb="NH.MGC.90"
        /tissue_type="adenoacrtinoma, cell line"
        /lab_host="DH10B (phage-resistant)"
        /note="Organ: liver; Vector: pCMV-SPORT6; Site_1: NotI;
        Site_2: SalI; Cloned unidirectionally; oligo-df primed.
        Average insert size 1.7 kb. Library enriched for
        full-length clones and constructed by Life Technologies.
        Note: this is a NH.MGC library."
BASE COUNT
  211 a 192 c 192 g 223 t

Query Match
  Best Local Similarity 90.0%; Pred. No. 2e+03;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GATTGCTGACGTACAGAG 20
    ||||||| |||||
Db 528 GATTGCTGACGTACAGAG 509

RESULT 7
AG085708 984 bp DNA linear GSS 03-NOV-2001
LOCUS Pan troglodytes DNA, clone: PTB-083N10.R, genomic survey sequence.
ACCESSION AG085708
VERSION AG085708.1 GI:16637510
KEYWORDS GSS.
SOURCE Pan troglodytes male lymphoblast DNA, clone_1lb:PTB Chimpanzee Male
  BAC Library Clone:PTB-083N10.R.
  Pan troglodytes
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Pan.
ORGANISM
  1
  Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T.,
  Tokoki,Y., Watanabe,H. and Sakaki,Y.
  BAC end sequences of library PTB
  Unpublished
  2 (bases 1 to 984)
  Fujiyama,A., Hattori,M., Toyoda,A., Taylor,T.D., Yada,T.,
  Tokoki,Y., Watanabe,H. and Sakaki,Y.
  Direct Submission
  Submitted (02-AUG-2001) Asao Fujiyama, The Institute of Physical
  and Chemical Research (RIKEN), Genomic Sciences Center (GSC);
  1-7-22 Suehiro-chou,Tsukumi-ku, Yokohama, Kanagawa 230-0045, Japan
  (E-mail:chimpesgsc.riken.go.jp, URL:http://ngp.gsc.riken.go.jp/,
  Tel:81-45-503-9111, Fax:81-45-503-9170)
  Clones are derived from the chimpanzee BAC library PTB this BAC end
  was generated during the R&D process and may have higher chance of
  clone tracking errors.
  PRIMERS
  Sequencing: M13rev
  LIBRARY
  Vector : pKS145
  R.Site 1 : SacI
  R.Site 2 : SacI.
  Location/Qualifiers
    1..984
      /organism="Pan troglodytes"
      /db_xref="taxon:9598"
      /clone="PTB-083N10.R"
      /sex="male"
      /cell_type="lymphoblast"
      /clone_1lb="PTB Chimpanzee Male BAC library"
BASE COUNT
  292 a 249 c 192 g 250 t 1 others

Query Match
  Best Local Similarity 90.0%; Pred. No. 2.2e+03;
  Score 16.8; DB 17; Length 984;

```

```

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GATTGCTGACGTACAGAG 20
    ||||||| |||||
Db 243 GACTGCTGACGTACAGAG 262

RESULT 8
A1446142/c 421 bp mRNA linear EST 09-MAR-1999
LOCUS t307d08.x1 NCI-CGAP-Gas4 Homo sapiens cDNA clone IMAGE:2140815.3'
DEFINITION similar to contains Alu repetitive element; contains element MER22
  repetitive element; mRNA sequence.
ACCESSION A1446142
VERSION A1446142.1 GI:4293138
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
  1 (bases 1 to 421)
  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
  National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
  Tumor Gene Index
  Unpublished (1997)
  Contact: Robert Strausberg, Ph.D.
  Email: cgaabs-r@mail.nih.gov
  Tissue Procurement: Christopher Koskaluk, M.D., Ph.D., Michael R.
  Emmert-Buck, M.D., Ph.D.
  cDNA Library Preparation: Life Technologies, Inc.
  cDNA Library Arrayed by: Greg Lennon, Ph.D.
  DNA Sequencing by: Washington University Genome Sequencing Center
  Clone distribution: NCI-CGAP clone distribution Information can be
  found through the I.M.A.G.E. Consortium/LLNL at:
  www-bio.llnl.gov/bhrp/image/image.html
  Seq primer: -40up from c1bco
  High quality sequence stop: 404.
  Location/Qualifiers
    1..421
      /organism="Homo sapiens"
      /db_xref="taxon:9606"
      /clone="IMAGE:2140815"
      /clone_1lb="NCI-CGAP-Gas4"
      /tissue_type="poorly differentiated adenocarcinoma with
      signet ring cell features"
      /lab_host="DH10B"
      /note="Organ: stomach; Vector: pCMV-SPORT6; Site_1: SalI;
      Site_2: NotI; Cloned unidirectionally. Primer: Oligo df.
      Average insert size 1.69 kb. Life Technologies catalog #:
      11549-011"
BASE COUNT
  81 a 120 c 119 g 99 t 2 others

Query Match
  Best Local Similarity 94.4%; Pred. No. 2.3e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GATTGCTGACGTACAGAG 18
    ||||||| |||||
Db 227 GATTGCTGACGTACAGAG 210

RESULT 9
A1377721 455 bp mRNA linear EST 28-MAR-1999
LOCUS tes6e04.x1 Soares_NFL_T_GRC.S1 Homo sapiens cDNA clone
DEFINITION IMAGE:2090718.3', mRNA sequence.
ACCESSION A1377721
VERSION A1377721.1 GI:4187574
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

REFERENCE 1 (bases 1 to 455)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps-remail.nih.gov
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (infoimage.llnl.gov) for further information.
 Insert length: 700 Std Error: 0.00
 Seq primer: -400p from Glbco
 High quality sequence stop: 444.
 Location/Qualifiers
 1..455
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:2090718"
 /clone_1lb="Soares_NFL_T-GRC_S1"
 /lab_host="DH10B"
 /note="Organ: pooled; Vector: pTV73D-Pac (Pharmacia) with
 a modified polylinker; Site.1: Not I; Site.2: Eco RI;
 Equal amounts of plasmid DNA from three normalized
 libraries (fetal lung NBHL19W, testis NRT, and B-cell
 NCI-CGAP-GB1) were mixed, and ss circles were made in
 vitro. Following HAP purification, this DNA was used as
 tracer in a subtractive hybridization reaction. The driver
 was PCR-amplified cDNAs from pools of 5,000 clones made
 from the same 3 libraries. The pools consisted of
 1 M.A.G.E. clones 297480-302087, 682632-687239,
 726408-728711, and 729096-731399. Subtraction by Bento
 Soares and M. Fatima Bonaldo."
 BASE COUNT 130 a 92 c 97 g 136 t
 ORIGIN
 Query Match 82.0%; Score 16.4; DB 9; Length 455;
 Best Local Similarity 94.4%; Pred. No. 2.4e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 GATTGCTGACGCTCAGAG 18
 |||||||||
 Db 258 GATTGCTGACGCTCAGAG 241
 RESULT 10 462 bp mRNA linear EST 05-AUG-2002
 AUI47973/LOCUS AUI47973 MAMMAL Homo sapiens cDNA clone MAMMAL1002282 3', mRNA
 DEFINITION sequence.
 ACCESSION AUI47973 GI:11009494
 VERSION AUI47973.1
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 462)
 Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S., Salto,K., Kawai,Y.,
 Yamamoto,J., Wakamatsu,A., Ozawa,M., Nakamura,Y., Nagai,T., Sugano
 S. and Isogai,T.)
 HRI human cDNA project (Ota,T., Nishikawa,T., Suzuki,Y., Ishii,S.,
 Salto,K., Kawai,Y., Yamamoto,J., Wakamatsu,A., Ozawa,M., Nakamura
 Y., Nagai,T., Sugano,S., Isogai,T.)
 Unpublished (2000)
 Contact: Takao Isogai
 Genomics Laboratory
 Helix Research Institute
 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan
 Tel: 81-438-52-3975
 Fax: 81-438-52-3986
 Email: genomics@hri.co.jp
 HRI human cDNA project; 5'-6 3'-end one pass sequencing; Helix
 Research Institute; cDNA library construction; Department of

REFERENCE 11 468 bp mRNA linear EST 05-AUG-1997
 AAS24774/LOCUS AAS24774 NCI CGAP Pr3 Homo sapiens cDNA clone IMAGE:954175
 DEFINITION similar to contains Alu repetitive element; mRNA sequence.
 ACCESSION AAS24774
 VERSION AAS24774.1 GI:2265702
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 468)
 NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgaps-remail.nih.gov
 Tissue Procurement: W. Marston Linehan, M.D., Rodrigo Chuagui, M.D.
 Michael Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: David B. Krizman, Ph.D.
 DNA Sequencing by: Genome Systems Inc., Greg Lennon, Ph.D.
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
www-bio.llnl.gov/bdrp/image/image.html
 Insert length: 421 Std Error: 0.00
 Seq primer: -40ml3 fwd. Ef from Amersham
 High quality sequence stop: 384.
 Location/Qualifiers
 1..468
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:954175"
 /clone_1lb="NCI-CGAP_Pr3"
 /sex="Male"
 /dev_stage="45 years old"
 /lab_host="DH10B"
 /note="Vector: PAMPI0; Site.1: NotI; Site.2: EcoRI; 1st
 strand cDNA was primed with oligo(dT)17 on 50 ng of
 DNase-treated, total cellular RNA obtained from 5,000-10
 ,000 microdissected cells histologically-determined to be
 fully malignant prostate cancer cells. Double-stranded
 cDNA was ligated to EcoRI adaptors, 5 cycles of PCR
 applied to the cDNA with an adaptor-specific primer, and
 the resulting PCR product subcloned into PAMPI0 by the
 UDG-cloning method (Life Technologies). Average insert
 size is 600 bp. NOTE: Not directionally cloned. This
 library was constructed by David Krizman."
 BASE COUNT 103 a 119 c 101 g 145 t

ORIGIN
 Query Match 82.0%; Score 16.4; DB 9; Length 468;
 Best Local Similarity 94.4%; Pred. No. 2.4e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1 GATTGCTGACGTGAG 18
 |||||||
 DB 240 GATTGCTGACGTGAG 223
 |||||||
 RESULT 12
 BF439459 476 bp mRNA linear EST 30-MAR-2001
 LOCUS nabb4g11.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone
 DEFINITION IMAGE:3272660 3', mRNA sequence.
 ACCESSION BF439459
 VERSION BF439459.1 GI:11451976
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE 1 (bases 1 to 476)
 NCI-CCGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997)
 JOURNAL Contact: Robert Strausberg, Ph.D.
 COMMENT Email: cgapbs-remail.nih.gov
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Seq primer: -40UP from Gibco
 High quality sequence stop: 444.
 Location/Qualifiers
 source 1..476
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:3272660"
 /clone_1lb="Soares_NSF_F8_9W_OT_PA_P_S1"
 /lab_host="DH10B"
 /note="Organ: pooled; Vector: pT7r3D-Pac (Pharmacia) with
 a modified polylinker; Site_1: Not I; Site_2: Eco RI;
 Equal amounts of plasmid DNA from five normalized
 libraries were mixed, and ss circles were made in vitro.
 Following HAP purification, this DNA was used as tracer in
 a subtractive hybridization reaction. The driver was
 PCR-amplified cDNAs from pools of 5,000 clones made from
 the same 5 libraries. The pools consisted of the following
 libraries and clones: Soares NBHF pool 1:
 309384-310919, 323208-325895 Soares ND2HP pool 1:
 145032-147335, 147720-148103, 148872-149255, 15002 -
 150407, 151176-152327 Soares NB2HF-9W pool 1:
 758280-760583, 772104-774407 Soares NBHPA pool 1:
 304776-306311, 320136-322823, 326280-326663 Soares NBHOT
 pool 1: 723720-726407, 739080-740999 Subtraction by Bento
 Soares and M. Fatima Bonalido."
 BASE COUNT 151 a 88 g 139 t
 ORIGIN
 Query Match 82.0%; Score 16.4; DB 12; Length 476;
 Best Local Similarity 94.4%; Pred. No. 2.4e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1 GATTGCTGACGTGAG 18
 |||||||
 DB 346 GATTGCTGACGTGAG 329
 |||||||
 RESULT 13
 AO617221 570 bp DNA linear GSS 15-JUN-1999
 LOCUS AO617221/c
 DEFINITION HS-5152_B1_B01_77A RPCR-11 Human Male BAC library Homo sapiens

accession genomic clone Plate-728 Col-1 Row-D, DNA sequence.
 AO617221
 AO617221.1 GI:5078497
 GSS.
 KEYWORDS
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE 1 (bases 1 to 570)
 Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
 Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
 Hood,L.
 Sequence-tagged connectors: A sequence approach to mapping and
 scanning the human genome
 Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
 99380589
 COMMENT Contact: Mahairas GG, Wallace JC, Hood L
 High Throughput Sequencing Center
 University of Washington
 401 Queen Anne Avenue North, Seattle, WA 98109, USA
 Tel: (206) 616-3618
 Fax: (206) 616-3887
 Email: jwallace@u.washington.edu
 Clones are derived from the human BAC library RPCR-11. For BAC
 library availability, please contact Pieter de Jong
 (pieter@dejong.med.buffalo.edu). Clones may be purchased from
 BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
 or from Research Genetics (info@resgen.com). BAC end Web Server:
 http://www.htsc.washington.edu
 Plate: 728 row: D column: 1
 Seq primer: 17
 Class: BAC ends
 High quality sequence stop: 570.
 Location/Qualifiers
 source 1..570
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="Plate-728 Col-1 Row-D"
 /clone_1lb="RPCR-11 Human Male BAC library"
 /sex="male"
 /note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI;
 Male blood DNA was isolated from one randomly chosen donor
 and partially digested with a combination of EcoRI and
 EcoRI methylase. Size selected DNA was cloned into the
 pBACe3.6 vector at EcoRI sites"
 BASE COUNT 170 a 111 c 113 g 167 t 9 others
 ORIGIN
 Query Match 82.0%; Score 16.4; DB 17; Length 570;
 Best Local Similarity 94.4%; Pred. No. 2.6e+03;
 Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 3 TTGCTGACGTGAG 20
 |||||||
 DB 147 TTGCTGACGTGAG 130
 |||||||
 RESULT 14
 AO392594 618 bp DNA linear GSS 06-MAR-1999
 LOCUS AO392594
 DEFINITION CITR1-EL-2546E7.TF CITR1-EL Homo sapiens genomic clone 2546E7, DNA
 sequence.
 ACCESSION AO392594
 VERSION AO392594.1 GI:4363617
 KEYWORDS GSS.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE 1 (bases 1 to 618)
 Zhao,S., Adams,M.D., Nieman,W., Malek,J., Shituya,H., Simon,M. and
 Venter,J.C.
 Use of BAC End Sequences from Caltech Libraries for Sequence-Ready

JOURNAL
COMMENT

Map Building
Unpublished (1997)
Other GSSs: CITBI-EI-2546E7.TR
Contact: Shaying Zhao, William Nierman, Mark Adams
Department of Eukaryotic Genomics
The Institute for Genomic Research
9712 Medical Center Dr., Rockville, MD 20850
Tel: 301 838 0200
Fax: 301 838 0208
Email: hbeetlgr.org
Clones are available from Research Genetics (info@resgen.com). BAC
end search page:
http://www.tigr.org/tdb/humgen/bac_end_search/bac_end_search.html.
Seq primer: M13-21
Class: BAC ends.

FEATURES
SOURCE

1. .618
Location/Qualifiers
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="2546E7"
/clone_lib="CITBI-EI"
/sex="male"
/cell_type="sperm"
/note="Vector: pBeloBAC11; Site_1: EcoRI; Site_2: EcoRI;
Caltech Human BAC Library D"

BASE COUNT
ORIGIN

177 a 148 c 142 g 151 t

Query Match 82.0%; Score 16.4; DB 17; Length 618;
Best Local Similarity 94.4%; Pred. No. 2.7e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TTGCGTCAGCTCAGAGAG 20
|||||
435 TTGCGTCAGCTCAGAGAG 452

RESULT 15
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

A0884463 630 bp DNA linear GSS 09-NOV-1999
HS.5510.A2.H02.SP6E RPCI-11 Human Male BAC Library Homo sapiens
genomic clone plate=9278 Col-4 Row-O, DNA sequence.
A0884463
A0884463.1 GI:6315930
GSS.

human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 630)
Mahairas,G.G., Wallace,J.C., Smith,K., Swartzell,S., Holzman,T.,
Keller,A., Shaker,R., Furlong,J., Young,J., Zhao,S., Adams,M.D. and
Hood,L.
Sequence-tagged connectors: A sequence approach to mapping and
scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
99380589
Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC
library availability, please contact Pieter de Jong
(pieter@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
or from Research Genetics (info@resgen.com). BAC end Web Server:
<http://www.hbrc.washington.edu>
Plate: 9278 row: 0 column: 4
Seq primer: SP6
Class: BAC ends

High quality sequence stop: 630.
Location/Qualifiers
1. .630
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="plate=9278 Col-4 Row-O"
/clone_lib="RPCI-11 Human Male BAC Library"
/sex="male"
/note="Vector: pBACe3.6; Site_1: EcoRI; Site_2: EcoRI;
Male blood DNA was isolated from one randomly chosen donor
and partially digested with a combination of EcoRI and
EcoRI Methylase. Size selected DNA was cloned into the
pBACe3.6 vector at EcoRI sites"

BASE COUNT
ORIGIN

189 a 117 c 125 g 181 t 18 others

Query Match 82.0%; Score 16.4; DB 17; Length 630;
Best Local Similarity 94.4%; Pred. No. 2.8e+03;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TTGCGTCAGCTCAGAGAG 20
|||||
213 TTGCGTCAGCTCAGAGAG 196

Search completed: June 26, 2003, 22:12:14
Job time : 1534.13 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 10:58:25 ; Search time 30.2174 Seconds
(without alignments)
202,980 Million cell updates/sec

Title: US-09-355-254F-8

Perfect score: 20

Sequence: 1 gattgctgacgtcagagag 20

Scoring table: IDENTITY NUC

Gapop 10.0, Capext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents.NA.*
1: /cgn2_6/ptodata/1/1na/5A.COMB.seq.*
2: /cgn2_6/ptodata/1/1na/5B.COMB.seq.*
3: /cgn2_6/ptodata/1/1na/6A.COMB.seq.*
4: /cgn2_6/ptodata/1/1na/6B.COMB.seq.*
5: /cgn2_6/ptodata/1/1na/PCtus.COMB.seq.*
6: /cgn2_6/ptodata/1/1na/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	US-09-133-774-10	Sequence 10, Appl
2	20	100.0	20	US-09-303-862-10	Sequence 10, Appl
3	20	100.0	27	US-08-210-880B-2	Sequence 2, Appl1
4	20	100.0	27	US-08-771-411-2	Sequence 2, Appl1
5	16.8	84.0	12394	US-09-488-856A-10	Sequence 1, Appl1
6	16.4	82.0	32	US-09-215-098-1	Sequence 1, Appl1
7	16.4	82.0	50	US-08-171-389-451	Sequence 451, App
8	16.4	82.0	50	US-08-123-936-451	Sequence 451, App
9	16.4	82.0	50	US-08-473-228A-451	Sequence 451, App
10	16.4	82.0	50	US-08-482-080A-451	Sequence 451, App
11	16.4	82.0	50	US-09-354-947-451	Sequence 451, App
12	16.4	82.0	50	PCT-US93-12388-451	Sequence 451, App
13	15.8	79.0	5134	US-08-310-912A-157	Sequence 157, App
14	15.8	79.0	5134	US-09-301-085-157	Sequence 157, App
15	15.8	79.0	5134	PCT-US95-04589-157	Sequence 157, App
16	15.8	79.0	5475	US-08-680-327-1	Sequence 157, App
17	15.8	79.0	5475	US-09-228-246-3	Sequence 3, Appl1
18	15.8	79.0	10968	US-08-680-327-2	Sequence 3, Appl1
19	15.8	79.0	10968	US-08-228-246-1	Sequence 2, Appl1
20	15.2	76.0	2559	US-09-118-408-43	Sequence 1, Appl1
21	15.2	76.0	2559	US-09-506-855-43	Sequence 43, Appl1
22	15	75.0	1974	US-08-625-322-1	Sequence 43, Appl1
23	14.8	74.0	5687	US-09-221-017B-368	Sequence 368, App
24	14.8	74.0	48974	US-08-920-422-17	Sequence 368, App
25	14.4	72.0	1243	US-09-257-179-30	Sequence 30, Appl
26	14.4	72.0	4793	US-09-561-497-10	Sequence 10, Appl
27	14.4	72.0	5375	US-08-757-223-7	Sequence 7, Appl1

c 28	14.4	72.0	7676	1	US-08-451-777A-7	Sequence 7, Appl1
c 29	14.4	72.0	7676	2	US-08-451-778A-7	Sequence 7, Appl1
c 30	14.4	72.0	7676	5	US-08-998-208-7	Sequence 7, Appl1
c 31	14.4	72.0	7676	5	PCT-US95-06743-7	Sequence 7, Appl1
c 32	14.4	72.0	15297	4	US-09-817-180-3	Sequence 3, Appl1
c 33	14.4	72.0	16063	4	US-09-801-052-3	Sequence 3, Appl1
c 34	14.4	72.0	99500	4	US-09-798-056-10	Sequence 10, Appl1
c 35	14.4	72.0	162450	4	US-09-345-882-1	Sequence 1, Appl1
c 36	14.4	72.0	4403765	4	US-09-103-840A-2	Sequence 2, Appl1
c 37	14.4	72.0	4411529	4	US-09-103-840A-1	Sequence 1, Appl1
c 38	14.2	71.0	41	3	US-08-813-507-78	Sequence 78, Appl1
c 39	14.2	71.0	41	4	US-09-464-453-78	Sequence 78, Appl1
c 40	14.2	71.0	562	4	US-09-449-285A-16	Sequence 16, Appl1
c 41	14.2	71.0	1017	4	US-09-330-611-5	Sequence 5, Appl1
c 42	14.2	71.0	2100	1	US-08-332-576-1	Sequence 1, Appl1
c 43	14.2	71.0	2100	5	PCT-US95-13672-1	Sequence 1, Appl1
c 44	14.2	71.0	29598	4	US-09-341-587-6	Sequence 6, Appl1
c 45	13.8	69.0	71	4	US-08-870-930-25	Sequence 25, Appl1

ALIGNMENTS

```
RESULT 1
US-09-133-774-10
; Sequence 10, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaler, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Hear
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentl Ver. 2.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-10
Query Match 100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GATTGCTGACGTGACGAG 20
DB 1 GATTGCTGACGTGACGAG 20
RESULT 2
US-09-303-862-10
; Sequence 10, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaler, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Hear
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
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EARLIER FILING DATE: 1998-08-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 10
LENGTH: 20
TYPE: DNA
ORGANISM: Chlamydia trachomatis
FEATURE:
OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-10

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
DB 1 GATTGCTGACGTACAGAG 20

RESULT 3

US-08-210-880B-2
Sequence 2, Application US/08210880B
Patent No. 5641486
GENERAL INFORMATION:
APPLICANT: HINRICH, STEVEN H.
APPLICANT: ORTEN, DANA J.
TITLE OF INVENTION: METHOD AND COMPOSITION FOR INHIBITING
TITLE OF INVENTION: CREB/ATF1 FAMILY DETERMINED TRANSCRIPTION
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: HENDERSON & STURM
STREET: 1125 S. 103RD ST., #330
CITY: OMAHA
STATE: NE
COUNTRY: US
ZIP: 68124
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/210,880B
FILING DATE: 18-MAR-1994
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: JONDL, ROBERT J.
REGISTRATION NUMBER: 33,915
REFERENCE/DOCKET NUMBER: 63066
TELECOMMUNICATION INFORMATION:
TELEPHONE: 402-398-9005
TELEFAX: 402-398-9005
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-210-880B-2

Query Match 100.0%; Score 20; DB 1; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
DB 4 GATTGCTGACGTACAGAG 23

RESULT 4
US-08-771-411-2
Sequence 2, Application US/08771411
Patent No. 5844096
GENERAL INFORMATION:
APPLICANT: HINRICH, STEVEN H.
APPLICANT: ORTEN, DANA J.
TITLE OF INVENTION: METHOD AND COMPOSITION FOR INHIBITING
TITLE OF INVENTION: CREB/ATF1 FAMILY DETERMINED TRANSCRIPTION
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: HENDERSON & STURM
STREET: 1125 S. 103RD ST., #330
CITY: OMAHA
STATE: NE
COUNTRY: US
ZIP: 68124

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/771,411
FILING DATE: 20-DEC-1996
CLASSIFICATION: 424
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/210,880
FILING DATE: 18-MAR-1994
ATTORNEY/AGENT INFORMATION:
NAME: JONDL, ROBERT J.
REGISTRATION NUMBER: 33,915
REFERENCE/DOCKET NUMBER: 63066
TELECOMMUNICATION INFORMATION:
TELEPHONE: 402-398-9005
TELEFAX: 402-398-9005
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 27 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-771-411-2

Query Match 100.0%; Score 20; DB 2; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.062;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
DB 4 GATTGCTGACGTACAGAG 23

RESULT 5

US-09-488-856A-10
Sequence 10, Application US/09488856A
Patent No. 6316259
GENERAL INFORMATION:
APPLICANT: Brett P. Monte
APPLICANT: Robert McKay
APPLICANT: Madeline K. Butler
APPLICANT: Jacqueline Wyatt
TITLE OF INVENTION: RPS-0115
TITLE OF INVENTION: ANTISENSE MODULATION OF GLYCOGEN SYNTHASE KINASE 3 ALPHA
FILE REFERENCE:
CURRENT APPLICATION NUMBER: US/09/488,856A
FILING DATE: 2000-01-21
NUMBER OF SEQ ID NOS: 88
SEQ ID NO 10
LENGTH: 12394
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:

NAME/KEY: CDS
LOCATION: (115)...(397)
NAME/KEY: CDS
LOCATION: (2438)...(2625)
NAME/KEY: CDS
LOCATION: (5639)...(5722)
NAME/KEY: CDS
LOCATION: (5864)...(5974)
NAME/KEY: CDS
LOCATION: (7902)...(8032)
NAME/KEY: CDS
LOCATION: (8121)...(8227)
NAME/KEY: CDS
LOCATION: (9197)...(9294)
NAME/KEY: CDS
LOCATION: (9375)...(9470)
NAME/KEY: CDS
LOCATION: (9898)...(10084)
NAME/KEY: CDS
LOCATION: (10431)...(10523)
NAME/KEY: CDS
LOCATION: (11713)...(11786)
US-09-488-856A-10

Query Match 84.0%; Score 16.8; DB 4; Length 12394;
Best Local Similarity 90.0%; Pred. No. 7;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GATGCTGACGTGACAGAG 20
DB 2949 GATGCTGACGTGACAGAG 2968

RESULT 6
US-09-215-098-1
Sequence 1, Application US/09215098
Patent No. 6194632
GENERAL INFORMATION:
APPLICANT: Leiden, Jeffery M
TITLE OF INVENTION: DILATED CARDIOMYOPATHY IN TRANSGENIC MICE EXPRESSING A
TITLE OF INVENTION: DOMINANT-NEGATIVE CRBB TRANSCRIPTION FACTOR IN THE
TITLE OF INVENTION: HEART
FILE REFERENCE: 9189-4
CURRENT APPLICATION NUMBER: US/09/215, 098
CURRENT FILING DATE: 1998-12-18
PRIOR APPLICATION NUMBER: 60/068, 011
PRIOR FILING DATE: 1997-12-18
NUMBER OF SEQ ID NOS: 5
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 1
LENGTH: 32
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Oligonucleotide
OTHER INFORMATION: containing the CRBB site from the somatostatin
OTHER INFORMATION: promoter
US-09-215-098-1

Query Match 82.0%; Score 16.4; DB 4; Length 32;
Best Local Similarity 94.4%; Pred. No. 5.1;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 TTGCTGACGTGACAGAG 20
DB 11 TTGCTGACGTGACAGAG 28

RESULT 7
US-08-171-389-451
Sequence 451, Application US/08171389
Patent No. 5578444
GENERAL INFORMATION:

APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 641
CORRESPONDENCE ADDRESS:
ADDRESS: Genelabs Technologies, Inc.
STREET: 505 Penoscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/171,389
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175/G19P3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 451:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human somatostatin I gene
US-08-171-389-451

Query Match 82.0%; Score 16.4; DB 1; Length 50;
Best Local Similarity 94.4%; Pred. No. 5.4;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 TTGCTGACGTGACAGAG 20
DB 1 TAGCCTGACGTGACAGAG 18

RESULT 8
US-08-123-936-451
Sequence 451, Application US/08123936
Patent No. 5726014
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.

TITLE OF INVENTION: Screening Assay for the Detection of
TITLE OF INVENTION: DNA-Binding Molecules
NUMBER OF SEQUENCES: 640
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/123,936
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
ATTORNEY/AGENT INFORMATION:
NAME: Fadian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0075.32/G19P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 451:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human somatostatin I gene
US-08-123-936-451
Query Match 82.0%; Score 16.4; DB 1; Length 50;
Best Local Similarity 94.4%; Pred. No. 5.4;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 3 TTGCTGAGCTCAGAG 20
DB 1 TAGCTGAGCTCAGAG 18
RESULT 9
US-08-475-228A-451
Sequence 451, Application US/08475228A
Patent No. 5869241
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/475,228A
FILING DATE: 06-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Stratford, Carol A.
REGISTRATION NUMBER: 34,444
REFERENCE/DOCKET NUMBER: 4600-0175.21/G19P3D2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 451:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human somatostatin I gene
US-08-475-228A-451
Query Match 82.0%; Score 16.4; DB 2; Length 50;
Best Local Similarity 94.4%; Pred. No. 5.4;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 3 TTGCTGAGCTCAGAG 20
DB 1 TAGCTGAGCTCAGAG 18
RESULT 10
US-08-482-080A-451
Sequence 451, Application US/08482080A
Patent No. 6010849
GENERAL INFORMATION:
APPLICANT: Edwards, Cynthia A.
APPLICANT: Cantor, Charles R.
APPLICANT: Andrews, Beth M.
APPLICANT: Turin, Lisa M.
APPLICANT: Fry, Kirk E.
TITLE OF INVENTION: Sequence-Directed DNA Binding
TITLE OF INVENTION: Molecules, Compositions and Methods
NUMBER OF SEQUENCES: 664
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genelabs Technologies, Inc.
STREET: 505 Penobscot Drive
CITY: Redwood City
STATE: CA
COUNTRY: USA
ZIP: 94063
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482,080A
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/171,389
FILING DATE: 20-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/123,936
FILING DATE: 17-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/723,618
FILING DATE: 27-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/081,070
FILING DATE: 22-JUN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Brady, John F.
REGISTRATION NUMBER: 39,118
REFERENCE/DOCKET NUMBER: 4600-0175.20/619P3D01
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 324-0880
TELEFAX: (650) 324-0960
INFORMATION FOR SEQ ID NO: 451:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human somatostatin I gene
US-08-482-080A-451

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Query Match	82.0%	Score 16.4	DB 3	Length 50
Best Local Similarity		Pred. No. 5.4		
Matches 17, Conservative	0	Mismatches	1	Indels 0; Gaps 0
OY	3	TTGGCTGAGCTCAGAGAG	20	
Db	1	TAGCTTGAGCTCAGAGAG	18	

RESULT 11
 US-09-354-947-451
 Sequence 451: Application US/09354947
 Patent No. 6384208
 GENERAL INFORMATION:
 APPLICANT: Edwards, Cynthia A.
 APPLICANT: Cantor, Charles R.
 APPLICANT: Andrews, Beth M.
 APPLICANT: Turin, Lisa M.
 APPLICANT: Fry, Kirk E.
 TITLE OF INVENTION: Sequence-Directed DNA Binding
 TITLE OF INVENTION: Molecules, Compositions and Methods
 NUMBER OF SEQUENCES: 664
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genelabs Technologies, Inc.
 STREET: 505 Penobscot Drive
 CITY: Redwood City
 STATE: CA
 COUNTRY: USA
 ZIP: 94063
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/354,947

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1      FILING DATE:
2      PRIOR APPLICATION DATA:
3      APPLICATION NUMBER: US 08/482,080
4      FILING DATE: 07-JUN-1995
5      APPLICATION NUMBER: US 08/171,389
6      FILING DATE: 20-DEC-1993
7      PRIOR APPLICATION DATA:
8      APPLICATION NUMBER: US 08/123,936
9      FILING DATE: 17-SEP-1993
10     PRIOR APPLICATION DATA:
11     APPLICATION NUMBER: US 07/996,783
12     FILING DATE: 23-DEC-1992
13     PRIOR APPLICATION DATA:
14     APPLICATION NUMBER: US 07/723,618
15     FILING DATE: 27-JUN-1991
16     PRIOR APPLICATION DATA:
17     APPLICATION NUMBER: US 08/081,070
18     FILING DATE: 22-JUN-1993
19     ATTORNEY/AGENT INFORMATION:
20     NAME: Brady, John F.
21     REGISTRATION NUMBER: 39,118
22     REFERENCE/DOCKET NUMBER: 4600-0175.20/619P3D01
23     TELECOMMUNICATION INFORMATION:
24     TELEPHONE: (650) 324-0880
25     TELEFAX: (650) 324-0960
26     INFORMATION FOR SEQ ID NO: 451:
27     SEQUENCE CHARACTERISTICS:
28         LENGTH: 50 base pairs
29         TYPE: nucleic acid
30         STRANDEDNESS: double
31         TOPOLOGY: linear
32     MOLECULE TYPE: DNA (genomic)
33     HYPOTHEetical: NO
34     ORIGINAL SOURCE:
35     INDIVIDUAL ISOLATE: Human somatostatin I gene
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	Query Match	82.0%	Score 16.4	DB 4	length 50
	Best Local Similarity	94.4%	Pred. No. 5.4		
	Matches 17	Conservative 0	Mismatches 1	Indels 0	Gaps 0
QY	3	TYGCTTGAGCTCAGAGAG	20		
db	1	TAGCTTGAGCTCAGAGAG	18		

RESULT 12
 PCT-US93-12388-451
 Sequence 451, Application PC/TUS9312388
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Sequence-Directed DNA Binding
 TITLE OF INVENTION: Molecules, Compositions and Methods
 NUMBER OF SEQUENCES: 641
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Genelabs Technologies, Inc.
 STREET: 505 Penobscot Drive
 CITY: Redwood City
 STATE: CA
 COUNTRY: USA
 ZIP: 94063
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US93/12388
 FILING DATE:
 CLASSIFICATION:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/123,936
 FILING DATE: 17-SEP-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/996,783
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fabian, Gary R.
REGISTRATION NUMBER: 33,875
REFERENCE/DOCKET NUMBER: 4600-0175.41/G19PCT2
TELEPHONE: (415) 324-0880
TELEFAX: (415) 324-0960
INFORMATION FOR SEQ ID NO: 451:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
INDIVIDUAL ISOLATE: Human somatostatin I gene
PCT-US93-12388-451

Query Match 82.0%; Score 16.4; DB 5; Length 50;
Best Local Similarity 94.4%; Pred. No. 5.4;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TTGCCTGACGTCAGAG 20
DB 1 TAGCCTGACGTCAGAG 18

RESULT 13
US-08-912A-157/c
Sequence 157, Application US/08310912A
Patent No. 5981730
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskawicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumiaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND DETECTION
TITLE OF INVENTION: METHODS
NUMBER OF SEQUENCES: 208
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 225 Franklin Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110-2904
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/310,912A
FILING DATE: September 22, 1994
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/227,360
FILING DATE: April 13, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Lech, Karen F.
REGISTRATION NUMBER: 35,238
REFERENCE/DOCKET NUMBER: 00786/254001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906

TELIX: 100254
INFORMATION FOR SEQ ID NO: 157:
SEQUENCE CHARACTERISTICS:
LENGTH: 5134 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-310-912A-157

Query Match 79.0%; Score 15.8; DB 2; Length 5134;
Best Local Similarity 89.5%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTGCTGACATCAGAG 20
DB 721 ATTGCTGACATCAGAG 703

RESULT 14
US-09-301-085-157/c
Sequence 157, Application US/09301085
Patent No. 6262248
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskawicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumiaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE FAMILY, PRIMERS, PROBES, AND
TITLE OF INVENTION: DETECTION METHODS
FILE REFERENCE: 00786/254002
CURRENT APPLICATION NUMBER: US/09/301,085
CURRENT FILING DATE: 1999-04-28
EARLIER APPLICATION NUMBER: 08/310,912
EARLIER FILING DATE: 1994-09-22
EARLIER APPLICATION NUMBER: 08/227,360
EARLIER FILING DATE: 1994-04-13
NUMBER OF SEQ ID NOS: 208
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 157
LENGTH: 5134
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-301-085-157

Query Match 79.0%; Score 15.8; DB 4; Length 5134;
Best Local Similarity 89.5%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 ATTGCTGACGTCAGAG 20
DB 721 ATTGCTGACGTCAGAG 703

RESULT 15
PCT-US95-04589-157/c
Sequence 157, Application PC/TUS9504589
GENERAL INFORMATION:
APPLICANT: Ausubel, Frederick M.
APPLICANT: Staskawicz, Brian J.
APPLICANT: Brent, Andrew F.
APPLICANT: Dahlbeck, Douglas
APPLICANT: Katagiri, Fumiaki
APPLICANT: Kunkel, Barbara N.
APPLICANT: Mindinos, Michael N.
APPLICANT: Yu, Guo-Liang
TITLE OF INVENTION: RPS2 GENE AND USES THEREOF
NUMBER OF SEQUENCES: 201
CORRESPONDENCE ADDRESS:


```

: ADDRESS: Fish & Richardson
: STREET: 225 Franklin Street Suite 3100
: CITY: Boston
: STATE: MA
: COUNTRY: USA
: ZIP: 02110-2904
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30B
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US95/04589
: FILING DATE:
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/227,360
: FILING DATE: 13-APR-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Clark, Paul T.
: REGISTRATION NUMBER: 30,162
: REFERENCE/DOCKET NUMBER: 00786/230001
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 542-5070
: TELEFAX: (617) 542-8906
: TELEX: 100254
: INFORMATION FOR SEQ ID NO: 157:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 5134 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA
: PCT-US95-04589-157
:
: Query Match 79.0%; Score 15.8; DB 5; Length 5134;
: Best Local Similarity 89.5%; Pred. No. 21;
: Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
:
: QY 2 ATTGCGTGCAGTCAGAGAG 20
: ||||| ||||| |||||
: Db 721 ATTGCTGCATCAGAGAG 703

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Search completed: June 26, 2003, 16:20:18
Job time : 37.2888 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: June 26, 2003, 09:43:36 ; Search time 226.087 Seconds
(without alignments)
199.215 Million cell updates/sec

Title: US-09-355-254F-8

Sequence: 1 gattgcctgacgtcagagag 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 08

Listing first 45 summaries

Database : N_Genseq_101002:*

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23: /SIDS7/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT.*
24: /SIDS7/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	20	100.0	20	19	AAV46000	Immune adjuvant APr
2	20	100.0	20	20	AAZ28189	Chlamydia trachoma
3	20	100.0	20	21	AAZ99172	Inflammatory cardi
4	20	100.0	20	24	AAI39177	Marine Toll-like r
5	20	100.0	26	20	AAV76047	CAMP response elem
6	20	100.0	27	18	AAV85832	CRE oligonucleotide
7	20	100.0	27	20	AAV82454	ARF comp oligonucle
8	20	100.0	27	20	AAV08336	CRE element coding
9	20	100.0	27	22	AAV70581	transcription factor

10	20	100.0	27	22	AAH77396	Cyclic AMP respons	
c	11	20	100.0	27	AAH77397	Cyclic AMP respons	
c	12	20	100.0	27	AAH87956	Cyclic AMP respons	
c	13	20	100.0	27	AAH87957	Cyclic AMP respons	
14	20	100.0	27	22	AAH76267	CAMP response elem	
15	20	100.0	27	24	ABA92274	CRE binding site c	
16	20	100.0	27	24	ABA05538	Cyclic-AMP respons	
17	19	95.0	20	19	AAV45997	Immun	
18	16.8	84.0	12384	22	AAH14749	Immun	
19	16.4	82.0	28	24	ABK14052	Human glycogen syn	
20	16.4	82.0	32	22	AAH77813	Cyclic AMP respons	
21	16.4	82.0	37	19	AAV04084	CREB probe derive	
22	16.4	82.0	50	15	AAO69701	Somatostatin gene	
23	16.4	82.0	50	18	AAH64163	Human somatostatin	
24	16.4	82.0	50	20	AAH17451	Human somatostatin	
25	16.4	82.0	50	20	AAH82842	Test sequence from	
26	16.4	82.0	462	22	AAH10445	DNA binding molecu	
c	27	16.4	82.0	723	20	AAZ41392	Human cDNA clone (
28	16.4	82.0	2443	22	AAH17546	Human normal pancr	
29	16.4	82.0	2564	23	ABH199414	Human cDNA sequenc	
30	16	80.0	462	23	ABV49687	Mouse ischemic CC	
31	15.8	79.0	20	19	AAV45999	Human prostate exp	
32	15.8	79.0	917	22	AAH94473	Immun	
c	33	15.8	79.0	2662	22	AAH86924	Human foetal cDNA,
c	34	15.8	79.0	2662	22	AAH86925	Human immunoglob
c	35	15.8	79.0	2669	22	AAH86923	Human immunoglob
c	36	15.8	79.0	3648	24	AAH37410	Human immunoglob
c	37	15.8	79.0	5475	19	AAH17777	Human phospholip
c	38	15.8	79.0	5552	22	AAH30935	Tomato Prt cDNA,
c	39	15.8	79.0	10968	19	AAH17789	Sporidoptera frugip
c	40	15.4	77.0	123	22	AAH76163	Tomato prf genomic
41	15.4	77.0	123	22	ABA40714	Human foetal liver	
42	15.4	77.0	123	22	ABA4826	Human brain expres	
43	15.4	77.0	123	22	AAH12849	Probe #17782 for g	
44	15.4	77.0	123	22	AAH36827	Probe #25315 used	
45	15.4	77.0	123	24	ABS24317	Human genome-deriv	

ALIGNMENTS

XX	RESULT
AAV46000	1
ID	AAV46000 standard; DNA; 20 BP.
XX	
AC	AAV46000;
XX	
DT	16-OCF-1998 (first entry)
XX	
DE	Immune adjuvant AP-1 #1.
XX	
KV	Immune system; adjuvant; vaccine; cancer; prophylactic; pathogenicity
KW	modulator; tolerance; regulator; helper cell; antigen; immunoglobulin
KW	1g class; autoImmune response; T-cell; B-cell; tumour; ss.
XX	
OS	Class Bacteria.
XX	
PN	EP855184-A1.
XX	
PD	29-JUL-1998.
XX	
PF	23-JAN-1997; 97EP-0101019.
XX	
PR	23-JAN-1997; 97EP-0101019.
XX	
PA	(HEEG/) HEEG K.
PA	(LIPE/) LIPFORD G. B.
PA	(WAGN/) WAGNER H.
PI	Heeg K, Lipford GB, Wagner H;
XX	
DR	WPL; 1998-389630/34.
XX	

PT Antigenic composition comprises polynucleotide fragment and antigen
PT - used as vaccine to treat or prevent e.g. cancer or pathogen
PT infections and to modulate immune response e.g. tolerance break and
PT regulation of TH1/TH2 cells
PS Example 3; Page 7; 28pp; English.
XX AAV55993-V46019 are fragments of bacterial polynucleotides which are
CC used as immune adjuvants for inclusion into vaccines to treat cancer and
CC for prophylaxis and/or treatment of conditions caused by pathogenic
CC micro-organisms. The polynucleotide is used for modulation of an immune
CC response and the modulation is selected from the group break of
CC tolerance, regulation of TH1/TH2 helper cell responses, switch of Ig
CC classes, treatment of autoimmune responses and induction of tolerances.
CC DNA oligomers are used to enhance the reactivity of immune cells to
CC viral, bacterial and parasitic antigens, to break tolerance in anergic T
CC and B cells e.g. against tumour antigens, as adjuvants in vaccination
CC against tumour-defined antigens and immunostimulatory substances in an
CC immune response against tumours and to suppress immune reactions of the
CC innate and acquired immune system. The composition is inexpensive and
CC stable and does not cause lethal shock, which happens with prior art
CC bacterial sequences.
SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 19; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGCTCAGACAG 20
|||||
DB 1 GATTGCTGACGCTCAGACAG 20

RESULT 2
AAZ28189
ID AAZ28189 standard; DNA; 20 BP.
XX
AC AAZ28189;
XX
DT 20-DEC-1999 (first entry)
XX
DE Chlamydia trachomatis outer membrane protein gene-derived Cpg oligo 2.
XX
KW Heart disease; inflammatory; autoimmune; cardiomyopathy; adjuvant;
KW Cpg motif; vaccine; ds.
XX
OS Synthetic.
OS Chlamydia trachomatis.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER = phosphorothioate linkage"
XX
PM US5962636-A.
XX
PD 05-OCT-1999.
XX
PF 12-AUG-1998; 98US-0133774.
XX
PR 12-AUG-1998; 98US-0133774.
XX
PA (AMGE-) AMGEN CANADA INC.
XX
PI Bachmaier K, Hessel AJ, Penninger JM, Neu N;
XX
DR WPI: 1999-589735/50.
XX
PT Peptides that induce or suppress inflammatory cardiomyopathy -
XX
PS Example 2; Column 25; 17pp; English.

XX This sequence represents DNA encoding Chlamydia trachomatis 60 kd outer
CC membrane protein (OMP) gene-derived Cpg oligonucleotide 2. This
CC oligonucleotide contains a Cpg motif. It was tested for its ability to
CC act as an adjuvant for the M7A-alpha peptide (AAV47223), which can
CC induce inflammatory cardiomyopathy (ICM) in mice. It was found to act as
CC a potent immunostimulator, whereas a oligonucleotide from the same
CC source which did not contain a Cpg motif (AAZ28193) was hardly effective
CC as an adjuvant. Inflammatory cardiomyopathy peptides (AAV4723, AAV42723,
CC AAV42725-V42731) can be used with such an adjuvant and an excipient in a
CC vaccine for decreasing ICM.
SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 20; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.48;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGCTCAGACAG 20
|||||
DB 1 GATTGCTGACGCTCAGACAG 20

RESULT 3
AAZ99172
ID AAZ99172 standard; DNA; 20 BP.
XX
AC AAZ99172;
XX
DT 21-JUN-2000 (first entry)
XX
DE Inflammatory cardiomyopathy immunostimulatory oligonucleotide #1.
XX
KW Cardiant; murine alpha myosin heavy chain; inflammatory myocarditis;
KW autoimmune inflammatory cardiomyopathy; Chlamydia; antibody; vaccine;
KW hybridization probe; immunostimulatory; ss.
XX
OS Synthetic.
XX
PN US6034230-A.
XX
PD 07-MAR-2000.
XX
PF 03-MAY-1999; 99US-0303862.
XX
PR 12-AUG-1998; 98US-0133774.
XX
PA (AMGE-) AMGEN CANADA INC.
XX
PI Neu N, Penninger JM, Bachmaier K, Hessel AJ;
XX
DR WPI: 2000-255712/22.
XX
PT DNA molecules encoding novel myocardial peptides used for inhibiting
PT and inducing inflammatory cardiomyopathy in vivo -
XX
PS Disclosure; Column 17; 17pp; English.
XX
CC The invention relates to the isolation of sequences coding for peptide
CC sequences derived from bacteria and viruses which may cause inflammatory
CC cardiomyopathy. The peptide sequences are searched based on the sequence
CC of the M7A peptides derived from the murine alpha myosin heavy chain
CC polypeptide. The consensus sequence of the murine M7A-alpha/beta peptides
CC (Y83813) was used to search the PIR public database for similar bacterial
CC and viral sequences able to cause inflammatory cardiomyopathy. The screen
CC isolated the peptides Y83814-Y83819 and their corresponding coding
CC sequences Z99164-Z99169. The peptides encoded by the DNAs are used, alone
CC or in conjunction with other therapeutics, for inducing or inhibiting
CC inflammatory cardiomyopathy in vivo, where the cardiomyopathy is
CC autoimmune inflammatory cardiomyopathy, and inflammatory cardiomyopathy
CC caused by Chlamydia or other bacterial or viral infections that cause
CC inflammatory cardiomyopathy. The oligonucleotides Z99172-Z99176 were
CC shown to increase the immunogenicity of the immunostimulatory peptides

CC when injected simultaneously. The peptides may also be used for
CC increasing inflammatory myocarditis in a mammal. Antibodies against the
CC peptides and the peptides themselves are used for measuring the risk of
CC inflammatory cardiomyopathy in a mammal. The peptides may also be used
CC in vaccines. Nucleic acids encoding the peptides may be used as
CC hybridization probes, e.g. in diagnostic assays to test for the
CC presence of Chlamydia DNA.

XX
SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.48; Mismatches 0;
Matches 20; Conservative 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTGACAGAG 20
DB 1 GATTGCTGACGTGACAGAG 20

RESULT 4
AAL39177 standard; DNA; 20 BP.

XX AAL39177;
XX 05-SEP-2002 (first entry)

DE Murine Toll-like receptor related CpG DNA SEQ ID NO 52.

KW Murine Toll-like receptor; TLR9; TLR7; ISNA; ds.

OS Unidentified.

PN WO200222809-A2.

XX 21-MAR-2002.

PF 17-SEP-2001; 2001WO-US29229.

PR 15-SEP-2000; 2000US-233035P.

PR 23-JAN-2001; 2001US-263657P.

PR 17-MAY-2001; 2001US-291726P.

PR 22-JUN-2001; 2001US-300210P.

PA (COLE-) COLEY PHARM GMBH.

PI Bauer S, Lidfjord G, Wagner H;

WPI; 2002-393964/42.

PS Disclosure: Page 76; 195pp; English.

CC The invention relates to isolated murine Toll-like receptors (TLR)9,
CC TLR7 and TLR8 polypeptides. These polypeptides comprise fully defined
CC sequences of 1032, 1050 or 1032 amino acids as given in specification, or
CC their fragments, where TLR9, TLR7 and TLR8 polypeptides or their
CC fragments have an amino acid sequence which is identical to human TLR9,
CC TLR7 or TLR8 polypeptides or their fragment except for at least one amino
CC acid of a murine TLR polypeptide. The isolated nucleic acids of the
CC invention are useful for inhibiting TLR9 signalling activity in a cell.
CC TLR7, TLR8 and TLR9 polypeptides are useful for identifying nucleic acid
CC molecules which interact with a TLR polypeptide or its fragment. The
CC TLR7, TLR8 or TLR9 polypeptides are also useful for identifying ISNA. The
CC TLR7, TLR8 and TLR9 polypeptides are also useful for comparing TLR9
CC signalling activity of a test compound (that is not a nucleic acid, and
CC is a polypeptide or a part of a combinatorial library of compounds) with
CC an ISNA. The TLR7, TLR8 and TLR9 polypeptides are also useful for
CC identifying species specificity of an ISNA. The isolated nucleic acids of
CC the invention are useful as probes or primers. This polynucleotide

CC sequence represents DNA relating to the isolated Toll-like receptors of
CC the invention.

SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 24; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.48; Mismatches 0;
Matches 20; Conservative 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTGACAGAG 20
DB 1 GATTGCTGACGTGACAGAG 20

RESULT 5
AAX76047 standard; DNA; 26 BP.

XX AAX76047;

DE 30-JUL-1999 (first entry)

KW CAMP response element oligonucleotide SEQ ID NO:15.

KW CRE; CAMP response element; transcription factor decoy; cis-element;
KW tumour growth inhibitor; palindromic; hairpin; cancer; metabolism;
KW gene transcription regulation; inhibiting proliferation; ds.

OS Synthetic.

PN WO9926634-A1.

PD 03-JUN-1999.

PF 23-NOV-1998; 98WO-US25307.

PR 24-NOV-1997; 97US-0977643.

PA (USSH) US DEPT HEALTH & HUMAN SERVICES.

PI Cho-Chung YS;

WPI; 1999-347612/29.

PT Nucleic acids that compete with response elements for transcription
PT factors

PS Example 10; Page 54; 83pp; English.

CC The present invention describes a composition (A) comprising one or more
CC nucleic acids (I) that compete with CAMP (cyclic adenosine monophosphate)
CC response element (CRE) enhancer DNA for binding to transcription factors
CC (TF). (I) are used to regulate gene transcription in cells, in vitro or
CC in vivo, specifically for inhibiting proliferation of cancer cells, but
CC possibly also for regulation of metabolism in hepatitis B and other
CC viruses. HCT-15 human multidrug resistant colon carcinoma cells (2
CC million) were inoculated subcutaneously into the flank of nude mice,
CC then the CRE oligonucleotide 5'-TGAGTTCATGACGTGATGACGTCA-3' injected
CC intraperitoneally at doses of 0.1 mg, 5 times per week, once the tumour
CC had reached 30-50 mg. This treatment resulted in over 85% reduction in
CC tumour growth, relative to an untreated control. (I) have high affinity
CC for TF and can inhibit growth of cancer cells without adverse effects on
CC normal cells (contrast use of antisense RNA). The method does not
CC require knowledge of the target gene sequence, only of the response
CC element sequence. The present sequence is used in the exemplification
CC of the present invention.

SQ Sequence 26 BP; 8 A; 4 C; 9 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 20; Length 26;
Best Local Similarity 100.0%; Pred. No. 0.5; Mismatches 0;
Matches 20; Conservative 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
 |||||||
 DB 4 GATTGCTGACGTACAGAG 23

RESULT 6
 AAT85832
 ID AAT85832 standard; DNA: 27 BP.

XX AAT85832;
 XX

DT 21-NOV-1997 (first entry)
 XX

DE CRE oligonucleotide used in gel shift assay.
 XX

KM Activating transcription factor 1; ATF1; CREB; recognition sequence;
 KM cyclic AMP responsive element binding protein; inhibition; binding;
 KM proliferation; virus; cancer; HTLV1; leukemia; antibody; ss.

XX Synthetic.
 OS

PN US5641486-A.
 XX

PD 24-JUN-1997.
 XX

PF 18-MAR-1994; 94US-0210880.
 XX

PR 18-MAR-1994; 94US-0210880.
 XX

PA (UYNE-) UNIV NEBRASKA.
 XX

PI Hinrichs SH, Orten DJ;
 XX

DR WPI; 1997-340900/31.
 XX

PT Inhibiting replication of cancer cells or viruses - with inhibitor
 PT that binds to peptide sequence of activating transcription factor 1

XX Example 2; Column 6; 17pp; English.
 XX

CC This oligonucleotide sequence corresponds to the cyclic AMP binding
 CC element (CRE) to which members of the activating transcription factor 1
 CC (ATF1)-cyclic AMP responsive element binding protein (CREB) family
 CC of protein bind. The sequence was used in a gel shift mobility assay to
 CC identify agents which inhibit the binding of ATF1 to its recognition
 CC sequence. The agents are preferably antibodies, small molecules or
 CC polypeptides, especially the complementarity determining region of
 CC monoclonal antibody Mab4. The agents cause inhibition of transcription
 CC by dissociating ATF1 from its target gene and thus will prevent
 CC proliferation of e.g. a virus or cancer cell, such as HTLV1-mediated
 CC leukemic cell proliferation.
 CC

SQ Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 18; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
 |||||||
 DB 4 GATTGCTGACGTACAGAG 23

RESULT 7
 AAV82454
 ID AAV82454 standard; DNA: 27 BP.

XX AAV82454;
 AC

DT 12-APR-1999 (first entry)
 XX

DE ATF comp oligonucleotide used in competition analysis.
 XX

KM Vascular endothelial growth factor; VEGF; human; hypoxia;
 KM vascular disease; tumour; cancer; angiogenesis; wound healing;
 KM therapy; diagnosis; ds.

XX Synthetic.
 OS

PN WO9856936-A1.
 XX

PD 17-DEC-1998.
 XX

PF 10-JUN-1998; 98WO-EP03517.
 XX

PR 10-JUN-1997; 97EP-0109418.
 XX

PA (PLAC) MAX PLANCK GES FOERDERUNG WISSENSCHAFTEN.
 XX

PI Damerit A, Plate K, Risau W;
 XX

DR WPI; 1999-080911/07.
 XX

PT New recombinant DNA - contains sequence that regulates
 PT hypoxia-induced expression, used for, e.g. treatment and diagnosis
 PT of vascular disease

PS Example 6; Page 41; 80pp; English.
 XX

CC Oligonucleotides hVEGF, hVEGF 5' DPL, APIM1 and APIM2 (see
 CC AAV82449-52), and competitor oligonucleotides API comp, ATF comp
 CC and VL30 (see AAV82453-55) were used in electrophoretic mobility
 CC shift assays to determine which transcription factor(s) bind to
 CC the cis-acting element that is involved in the potentiation of
 CC hypoxia inducible factor 1 (HIF-1) mediated hypoxic induction
 CC of vascular endothelial growth factor (VEGF) gene regulatory
 CC sequences. Experiments were performed using normoxic or hypoxic
 CC C6 cell nuclear extracts. An API consensus binding site was shown
 CC to compete for DNA-protein complex formation at potentiating
 CC sequences. The invention relates to recombinant DNA molecules
 CC comprising regulatory sequences of the VEGF gene, especially the
 CC 3' untranslated region (see AAV82439) and promoter (see AAV82440),
 CC being capable of modulating hypoxia inducible expression of a
 CC heterologous DNA in vivo. Such recombinant DNA molecules, vectors,
 CC host cells and transgenic animals can be used to identify and
 CC develop compounds and methods for diagnosing, treating, preventing
 CC and/or delaying a vascular or tumour disease.
 CC

SQ Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;

Query Match 100.0%; Score 20; DB 20; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTACAGAG 20
 |||||||
 DB 4 GATTGCTGACGTACAGAG 23

RESULT 8
 AAV08336
 ID AAV08336 standard; DNA: 27 BP.

XX AAV08336;
 AC

DT 04-FEB-1999 (first entry)
 XX

DE CRE element coding sequence.
 XX

KM ATF1; activating transcription factor 1; inhibitor; gene transcription;
 KM cell proliferation; cancer cell; human; ds.

XX Synthetic.
 OS

PN US5844096-A.
 XX

XX 01-DEC-1998.
 XX 20-DEC-1996; 96US-0771411.
 XX 18-MAR-1994; 94US-0210880.
 XX 20-DEC-1996; 96US-0771411.
 XX (UYNE-) UNIV NEBRASKA.
 XX Hinrichs SH, Orten DJ;
 XX WPI; 1999-044667/04.
 XX Inhibitor of activating transcription factor 1 mediated gene
 XX transcription - useful as anticancer or antiviral agent
 XX
 XX Example 2; Column 6; 17pp; English.
 XX This sequence represents a CRE element coding sequence. This sequence
 XX was used to test the effect of the inhibitory compound of the
 XX invention. The inhibitory compound binds to ATF1 residues 167-181 with
 XX sufficient affinity to dissociate ATF1 from a gene to which it is bound
 XX and thereby prevent transcription of the gene. The inhibitory compound
 XX and its derivatives are useful for inhibiting the ATF1-mediated
 XX proliferation of cancer cells and viruses, e.g. HTLV I.
 XX
 XX Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;
 XX
 XX Query Match 100.0%; Score 20; DB 20; Length 27;
 XX Best Local Similarity 100.0%; Pred. No. 0.5; Mismatches 0; Indels 0; Gaps 0;
 XX Matches 20; Conservative 0; Indels 0; Gaps 0;
 XX
 XX 1 GATTGCTGACGTGAGAG 20
 XX ||||||||||||||||
 XX 4 GATTGCTGACGTGAGAG 23
 XX
 XX RESULT 9
 XX ID AAT70581 standard; DNA: 27 BP.
 XX
 XX AAT70581;
 XX
 XX 21-JAN-2002 (first entry)
 XX
 XX Transcription factor CREB consensus oligonucleotide.
 XX
 XX Transcription factor; CREB; screening; detection; quantification;
 XX probe; ds.
 XX
 XX Synthetic.
 XX
 XX EP1136567-A1.
 XX
 XX 26-SEP-2001.
 XX
 XX 24-MAR-2000; 2000EP-0870057.
 XX
 XX 24-MAR-2000; 2000EP-0870057.
 XX
 XX (ADAR-) ADVANCED ARRAY TECHNOLOGIES SA.
 XX
 XX Remacle J, Renard P, Art M;
 XX
 XX WPI; 2001-640391/74.
 XX
 XX Screening, detecting or quantifying transcriptional factors in a
 XX biological sample comprises contacting the transcriptional factor with
 XX a double-stranded DNA sequence bound to an insoluble solid support -
 XX
 XX Example 4; Page 8; 20pp; English.

CC The present sequence is that of a CREB transcription factor
 CC consensus oligonucleotide. Double-stranded probe nucleotide
 CC sequences were constructed from 100 bp of a CMV 5' sequence (see
 CC AAT70578) linked to this oligonucleotide and used in microwell
 CC colorimetric CREB and phospho-CREB assays. The double-stranded
 CC probe was biotinylated at its CMV 5' extremity and linked to
 CC streptavidin-coated 96-wells plates. The plates were contacted
 CC with a nuclear extract of L929 murine fibrosarcoma cells,
 CC incubated with anti-CREB or anti-phospho-CREB antibody and then
 CC with peroxidase-conjugated antibody. The presence of CREB or
 CC phospho-CREB was detected through the action of peroxidase on
 CC tetramethylbenzidine. This is an example of the method of the
 CC invention, involving the detection of a transcription factor using
 CC a double-stranded DNA probe bound to an insoluble solid support at
 CC a concentration of at least 0.01 pmole/sq cm of support surface and
 CC at a distance of at least 6.8 nm from the surface of the support.
 CC The method allows the screening, detection and/or quantification of
 CC one or more transcriptional factors, of molecules binding such
 CC factors, and of molecules that inhibit such binding, using
 CC non-radioactive detection methods.
 CC
 CC Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;
 CC
 CC Query Match 100.0%; Score 20; DB 22; Length 27;
 CC Best Local Similarity 100.0%; Pred. No. 0.5; Mismatches 0; Indels 0; Gaps 0;
 CC Matches 20; Conservative 0; Indels 0; Gaps 0;
 CC
 CC 1 GATTGCTGACGTGAGAG 20
 CC ||||||||||||||||
 CC 4 GATTGCTGACGTGAGAG 23
 CC
 CC RESULT 10
 CC ID AAT77396 standard; DNA: 27 BP.
 CC
 CC AAT77396;
 CC
 CC 05-NOV-2001 (first entry)
 CC
 CC Cyclic AMP response element CRE consensus oligonucleotide probe #1.
 CC
 CC Cancer; human; dithiocarbamate derivative; anticancer agent; probe; ss.
 CC
 CC Unidentified.
 CC
 CC US2001016600-A1.
 CC
 CC 23-AUG-2001.
 CC
 CC 12-DEC-2000; 2000US-0735205.
 CC
 CC 08-SEP-1998; 98US-0099390.
 CC 08-SEP-1999; 99US-0392122.
 CC 05-OCT-2000; 2000US-0679932.
 CC
 CC (KENN/) KENNEDY T P.
 CC
 CC Kennedy TP;
 CC
 CC WPI; 2001-557127/62.
 CC
 CC Treating cancer, asthma and cancer and reducing hypoxic or ischemic
 CC damage comprises administering dithiocarbamate thiolate anion or
 CC dithiocarbamate thiolate metal complex -
 CC
 CC Disclosure; Page 10; 36pp; English.
 CC
 CC The present invention describes a method of treating cancer, asthma and
 CC arthritis and reducing hypoxic or ischemic damage, involving
 CC administering a dithiocarbamate thiolate anion or metal ion complex to
 CC the patient. The present sequence is a probe for the cyclic AMP response
 CC element CRE, which was described in the exemplification of the invention.

XX Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;
SQ

Query Match 100.0%; Score 20; DB 22; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTGACAGAG 20
|||||
DB 4 GATTGCTGACGTGACAGAG 23

RESULT 11
AAH77397/c
ID AAH77397 standard; DNA; 27 BP.
XX
AC AAH77397;
XX
DT 05-NOV-2001 (first entry)
XX
DE Cyclic AMP response element CRE consensus oligonucleotide probe #2.
XX
KW Cancer; human; dithiocarbamate derivative; anticancer agent; probe; ss.
XX
OS Unidentified.
XX
PN US2001016600-A1.
XX
PD 23-AUG-2001.
XX
PF 12-DEC-2000; 2000US-0735205.
XX
PR 08-SEP-1998; 98US-0099390.
PR 08-SEP-1999; 99US-0392122.
PR 05-OCT-2000; 2000US-0679932.
XX
PA (KENN/) KENNEDY T P.
XX
PI Kennedy TP;
XX
DR WPI; 2001-557127/62.
XX
PT Treating cancer, asthma and cancer and reducing hypoxic or ischemic
PT damage comprises administering dithiocarbamate thiolate anion or
PT dithiocarbamate thiolate metal complex -
XX
PS Disclosure; Page 10; 36pp; English.
XX
CC The present invention describes a method of treating cancer, asthma and
CC arthritis and reducing hypoxic or ischemic damage, involving
CC administering a dithiocarbamate thiolate anion or metal ion complex to
CC the patient. The present sequence is a probe for the cyclic AMP response
CC element CRE, which was described in the exemplification of the invention.
XX
SQ Sequence 27 BP; 5 A; 9 C; 5 G; 8 T; 0 other;
XX

Query Match 100.0%; Score 20; DB 22; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTGACAGAG 20
|||||
DB 24 GATTGCTGACGTGACAGAG 5

RESULT 12
AAF87956
ID AAF87956 standard; DNA; 27 BP.
XX
AC AAF87956;
XX
DT 20-JUL-2001 (first entry)
XX

DE Cyclic AMP responsive element CRE consensus oligo for EMSA #1.
XX
KW Cyclic AMP responsive element; electrophoretic mobility shift assay;
KW EMSA; CRE; NF-kappaB; cancer; tetraethyl thium disulphide;
KW dithiocarbamate; tumour; metal ion; copper ion; cytokine;
KW ceruloplasmin; anticancer; cytostatic; ss.
XX
OS Synthetic.
XX
PN WO200117522-A1.
XX
PD 15-MAR-2001.
XX
PF 15-NOV-1999; 99WO-US27193.
XX
PR 08-SEP-1999; 99US-0392122.
XX
PA (CHAR-) CHARLOTTE-MECKLENBURG HOSPITAL AUTHORITY.
XX
PI Kennedy TP;
XX
DR WPI; 2001-281426/29.
XX
PT Treating cancer, e.g. melanoma, lung cancer, breast cancer or prostatic
PT carcinoma, comprises administration of a thium disulfide optionally
PT in combination with a heavy metal ion, ceruloplasmin or a cytokine e.g.
PT interferon-alpha
XX
PS Disclosure; Page 24; 60pp; English.
XX
CC The present invention describes a method for treating established cancer
CC in a mammal. The method comprises administering a thium disulfide (I).
CC (I) has anticancer and cytostatic activities. (I) induces apoptosis and
CC G2 cell-cycle arrest, by reducing expression of cyclin A (by preventing
CC binding of transcription factors to DNA regulatory elements involved in
CC control of cyclin A expression). The method can be used to treat cancers,
CC e.g. melanoma, non-small cell lung cancer, small cell lung cancer, renal
CC cancer, colorectal cancer, breast cancer, pancreatic cancer, gastric
CC cancer, bladder cancer, ovarian cancer, uterine cancer, lymphoma and
CC prostate cancer, especially melanoma, lung cancer, breast cancer and
CC prostate carcinoma. The tumour-inhibiting effect of (I) is dependent on
CC heavy metal ions, so administering (I) together with such ions (or with
CC their intracellular carriers, e.g. ceruloplasmin or with serum
CC ceruloplasmin stimulants, e.g. interferon-alpha) will increase the
CC antiproliferative/anticarcinogenic effect. (I) also potentiates the
CC effect of standard anticancer agents. (I) is already known for treating
CC alcohol abuse (inhibitor of aldehyde dehydrogenase) and is relatively
CC nontoxic and safe. The present sequence represents a cyclic-AMP
CC responsive element CRE consensus oligonucleotide for use in an
CC electrophoretic mobility shift assay (EMSA), which is used in the
CC exemplification of the present invention.
XX
SQ Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;
XX

Query Match 100.0%; Score 20; DB 22; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTGCTGACGTGACAGAG 20
|||||
DB 4 GATTGCTGACGTGACAGAG 23

RESULT 13
AAF87957/c
ID AAF87957 standard; DNA; 27 BP.
XX
AC AAF87957;
XX
DT 20-JUL-2001 (first entry)
XX
DE Cyclic AMP responsive element CRE consensus oligo for EMSA #2.
XX

KW Cyclic-AMP responsive element; electrophoretic mobility shift assay;
 KW EMSA; CRE; NF-kappaB; cancer; tetraethyl thiumam disulfide;
 KW dithiocarbamate; tumour; metal ion; copper ion; cytokine;
 KW ceruloplasmin; anticancer; cytosolic; ss.
 OS Synthetic.
 PN WO200117522-A1.
 XX
 XX 15-MAR-2001.
 XX
 XX 15-NOV-1999; 99WO-US27193.
 PE
 XX 08-SEP-1999; 99US-0392122.
 PR
 XX (CHAR-) CHARLOTTE-MECKLENBURG HOSPITAL AUTHORITY.
 PA
 XX Kennedy TP;
 PI
 XX WPI; 2001-281426/29.
 DR
 XX Treating cancer, e.g. melanoma, lung cancer, breast cancer or prostatic
 PT carcinoma, comprises administration of a thiumam disulfide optionally
 PT in combination with a heavy metal ion, ceruloplasmin or a cytokine e.g.
 PT interferon-alpha
 PS
 XX Disclosure; Page 24; 60pp; English.
 XX
 XX The present invention describes a method for treating established cancer
 CC in a mammal. The method comprises administering a thiumam disulfide (1).
 CC (1) has anticancer and cytostatic activities. (1) induces apoptosis and
 CC G2 cell-cycle arrest, by reducing expression of cyclin A (by preventing
 CC binding of transcription factors to DNA regulatory elements involved in
 CC control of cyclin A expression). The method can be used to treat cancers,
 CC e.g. melanoma, non-small cell lung cancer, small cell lung cancer, renal
 CC cancer, colorectal cancer, breast cancer, pancreatic cancer, gastric
 CC cancer, bladder cancer, ovarian cancer, uterine cancer, lymphoma and
 CC prostate cancer, especially melanoma, lung cancer, breast cancer and
 CC heavy metal ions, so administering (1) together with such ions (or with
 CC their intracellular carriers, e.g. ceruloplasmin or with serum
 CC ceruloplasmin stimulants, e.g. interferon-alpha) will increase the
 CC antiproliferative/antineoplastic effect. (1) also potentiates the
 CC effect of standard anticancer agents. (1) is already known for treating
 CC alcohol abuse (inhibitor of aldehyde dehydrogenase) and is relatively
 CC nontoxic and safe. The present sequence represents a cyclic-AMP
 CC responsive element CRE consensus oligonucleotide for use in an
 CC electrophoretic mobility shift assay (EMSA), which is used in the
 CC exemplification of the present invention.
 CC
 XX
 SQ Sequence 27 BP; 5 A; 9 C; 5 G; 8 T; 0 other;
 Query Match 100.0%; Score 20; DB 22; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GATTGCTGACGTGAGAG 20
 ||||||||||||||||
 DB 24 GATTGCTGACGTGAGAG 5
 RESULT 14
 AAF76267
 ID AAF76267 standard; DNA; 27 BP.
 XX
 XX AAF76267;
 AC
 XX
 XX 05-JUN-2001 (first entry)
 DE
 XX CAMP response element (CRE) competitor EMSA probe.
 XX
 XX NF-kappa-B; nuclear factor-kappa-B; CAMP response element; CRE;
 KW nuclear translocation inhibition; heparin; internalisation;

KW NF-kappa-B dependent gene expression inhibition; cytokine;
 KW tumour necrosis factor; TNF; interleukin; IL-1; IL-2; IL-6; IL-8;
 KW interferon-beta; interferon-gamma; tissue factor-1; complement;
 KW inducible nitric oxide synthase; diabetic vascular disease;
 KW heart failure; asthma; sepsis; ischaemic-reperfusion injury;
 KW electrophoretic mobility shift assay; competitor EMSA probe; ds.
 OS Unidentified.
 PN WO200119376-A2.
 XX
 XX
 XX 22-MAR-2001.
 PD
 XX 12-SEP-2000; 2000WO-US24910.
 PE
 XX 13-SEP-1999; 99US-0395081.
 PR
 XX (CHAR-) CHARLOTTE-MECKLENBURG HOSPITAL AUTHORITY.
 PA
 XX Kennedy TP;
 PI
 XX WPI; 2001-244698/25.
 DR
 XX Inhibiting NF-kappa-B activity, useful for treating e.g. diabetic
 PT vascular disease, heart failure, asthma and sepsis, comprises
 PT administering heparin to cells in patient to inhibit translocation of
 PT NF-kappa-B from cytoplasm to nucleus
 PS
 XX Examples; Page 22; 68pp; English.
 XX
 XX The invention relates to a method of inhibiting nuclear factor-kappa-B
 CC (NF-kappa-B) activity in a patient, comprising the administration of
 CC heparin to the cells in the patient, such that the heparin is
 CC internalised into the cytoplasm of cells in the patient. The invention
 CC is based on the discovery that heparin is able to block the
 CC translocation of NF-kappa-B from the cytoplasm to the nucleus. This in
 CC turn inhibits NF-kappa-B dependent gene expression. Such NF-kappa-B
 CC dependent genes include genes encoding cytokines such as tumour necrosis
 CC factor (TNF), IL-1 (interleukin-1), IL-2, IL-6, IL-8, interferon-beta,
 CC interferon-gamma, tissue factor-1, complement and inducible nitric
 CC oxide synthase. The method of the invention is used for treating or
 CC preventing diabetic vascular disease, heart failure, asthma, sepsis and
 CC ischaemic-reperfusion injury. Heparin may be administered in combination
 CC with other active agents that treat or prevent another disease or
 CC symptom in the patient, e.g., antiviral agents, antibiotics, antifungal
 CC agents and anti-inflammatory agents. The method of the invention offers
 CC significant advantages over prior art treatments for the above
 CC conditions. Heparin is relatively non-toxic and safe, and should not
 CC produce the side effects such as hypertension, glucose intolerance
 CC and bone demineralisation that are encountered with the use of
 CC glucocorticoids for blocking the NF-kappa-B nuclear translocation.
 CC Additionally, heparin is readily available and easily used. Sequences
 CC AAF76266-AAF76267 represents EMSA (electrophoretic mobility shift assay)
 CC probes used to measure the effect of heparin on NF-kappa-B nuclear
 CC translocation. EMSA probe AAF76266 comprises a consensus NF-kappa-B
 CC response element, and EMSA competitor probe AAF76267 comprises a
 CC CAMP response element (CRE).
 CC
 XX
 SQ Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other;
 Query Match 100.0%; Score 20; DB 22; Length 27;
 Best Local Similarity 100.0%; Pred. No. 0.5;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GATTGCTGACGTGAGAG 20
 ||||||||||||||||
 DB 4 GATTGCTGACGTGAGAG 23
 RESULT 15
 ABA92274
 ID ABA92274 standard; DNA; 27 BP.
 XX

AC ABA92274;
XX
DT 10-JUN-2002 (first entry)
XX
DE CRE binding site oligonucleotide, used in EMSA.
XX
KW CRE; electrophoretic mobility shift assay; EMSA; ds.
XX
OS Homo sapiens.
XX
PM W0200215912-A1.
XX
PD 28-FEB-2002.
XX
PF 24-AUG-2001; 2001WO-0526527.
XX
PR 25-AUG-2000; 2000US-228201P.
XX PR 26-OCT-2000; 2000US-243295P.
XX
PA (BETH-) BETH ISRAEL DEACONESS MEDICAL CENT.
XX
PI Ratan RR, Chatterjee S;
XX
DR WP1: 2002-24203/29.
XX
PT Diagnosing and treating diseases associated with oxidative stress, DNA
PT damage or growth factor depletion, e.g. Alzheimer's and Parkinson's, by
PT administering e.g. mithramycin, chromomycin, daunomycin, olivomycin and
PT WP631 -
PS
PS Example 1; Page 23; 69pp; English.
XX
XX The present sequence is that of a CRE binding site oligonucleotide,
CC which was radiolabelled and used in an electrophoretic mobility shift
CC assay (EMSA) to parallel an EMSA performed with Sp-1 oligonucleotides
CC (see ABA92271-72). The EMSAs were used to determine the effect of
CC oxidative stress on Sp-1 DNA binding, and the effects of candidate
CC compounds on Sp-1 protein levels. Sp-1 DNA binding activity in
CC cortical neurons was shown to be low, but was dramatically enhanced
CC by oxidative stress. The invention provides methods for detecting
CC and treating diseases associated with oxidative stress, DNA damage
CC or growth factor depletion, and identifying agents for their
CC treatment. A compound is deemed to be an inhibitor of oxidative
CC stress, DNA damage, growth factor depletion or cell death if it
CC reduces the protein level of an Sp family member or if it decreases
CC the binding of an Sp family member to DNA. A method for preventing
CC or treating a disease or disorder of the nervous system, the ageing
CC process or associated with apoptosis involves administering a
CC compound that inhibits the induction of an Sp family member or the
CC binding of an Sp family member to DNA, e.g. mithramycin,
CC chromomycin, daunomycin, olivomycin Or WP631. Diseases and
CC disorders that can be treated include Alzheimer's disease, aneurysm,
CC Creutzfeldt-Jacob disease, kuru, Huntington's disease, stroke,
CC stroke associated with an increase in blood pressure, spinal cord
CC disease, spinal cord injury, brain injury, multiple system atrophy,
CC amyloctrophic lateral sclerosis, progressive supranuclear palsy,
CC neurodegeneration associated with the ageing process, mitochondrial
CC disease, HIV infection, herpes infection and multiple sclerosis
CC (all claimed).
XX
XX Sequence 27 BP; 8 A; 5 C; 9 G; 5 T; 0 other:
SO

Query Match 100.0%; Score 20; DB 24; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.5;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 GATGCGCTGAGCTCAGAAG 20
|||||
4 GATTGCGTGAAGCTCAGAAG 23

Search completed: June 26, 2003, 12:16:10
Job time: 228.158 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 09:43:36 ; Search time 226.087 Seconds
(without alignments)
199.215 Million cell updates/sec

Title: US-09-355-254f-21

Perfect score: 20

Sequence: 1 gatttccagaaaggaac 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 2185239 segs, 1125999159 residues 4370478

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_101002.*

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2:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1981.DAT.*
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4:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1983.DAT.*
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7:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1986.DAT.*
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9:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1988.DAT.*
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15:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1994.DAT.*
16:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1995.DAT.*
17:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1996.DAT.*
18:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1997.DAT.*
19:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1998.DAT.*
20:	/SID52/gcgdata/geneseq/geneseq-emb1/NA1999.DAT.*
21:	/SID52/gcgdata/geneseq/geneseq-emb1/NA2000.DAT.*
22:	/SID52/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
23:	/SID52/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
24:	/SID52/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	20	100.0	20 17 AAT33591	Fcgr1 gene interie
2	20	100.0	20 17 AAT03680	Fc-gamma RI IIA St
3	20	100.0	20 19 AAV46013	Immune adjuvant ST
4	20	100.0	20 20 AAX28360	Probe for Human St
5	20	100.0	20 20 AAX28365	PCR primer for Hum
6	20	100.0	20 21 AAZ92039	STAF5 binding sequ
7	20	100.0	20 24 AAI39188	Murine Toll-like r
8	20	100.0	42 15 AAO33859	Protein binding mo
9	20	100.0	100 25 AAO54479	DNA fragment compr

C	10	20	100.0	100	22	AA54480	DNA fragment compr
C	11	20	100.0	100	24	ABA93801	K2134 plasmid cons
C	12	20	100.0	100	24	ABA93802	K2134 plasmid cons
C	13	20	100.0	100	24	AAS20691	Plasmid K2 134 o11
C	14	20	100.0	100	24	AAS20692	Plasmid K2 134 o11
C	15	20	100.0	100	24	AAS22953	Baf3/K2134/2alpha1
C	16	20	100.0	100	24	AAD22954	Human Fc gamma RI
C	17	20	100.0	100	15	AAO63438	K2159/mlt4 reporte
C	18	20	100.0	824	22	AA505968	Genomic sequence #
C	19	19	95.0	21710	22	AA542185	GAS motif biotinyl
C	20	18.4	92.0	62	18	AAT76784	Human CDNA differe
C	21	18.4	92.0	655	24	ABK64058	Fc(gamma)RI promot
C	22	17.4	87.0	26	18	AAT59532	Human CDNA differe
C	23	17.4	87.0	149671	24	ABK84797	STAF probe GRR S
C	24	17	85.0	17	17	AAT31284	Oligo GRR, contain
C	25	17	85.0	17	21	AA28829	Human GRR oligo #2
C	26	17	85.0	17	24	AAD30634	GRR probe lower st
C	27	17	85.0	17	24	AAD27140	Arachidonic acid m
C	28	16.8	84.0	1001	21	AAK57470	Human immune/haema
C	29	16.4	82.0	474	22	AAK52617	Human CDNA clone (
C	30	16.4	82.0	806	22	AAK52617	Drosophila melanog
C	31	16.4	82.0	5749	23	AB128262	Human immune/haema
C	32	16.4	82.0	17070	22	AAK80632	Human immune/haema
C	33	16.4	82.0	27324	22	ABA859226	Escherichia coli p
C	34	16.4	82.0	36651	24	AAD28072	Human kinase genom
C	35	16.4	82.0	76798	24	ABN97454	Gene #3952 used to
C	36	16.4	82.0	130263	24	ABK83573	Human CDNA differe
C	37	16.4	82.0	1503900	22	AAK95240	Human neutrophil-1
C	38	16.4	82.0	1503900	22	AAK95240	Human neutrophil-1
C	39	16	80.0	25	16	AAO89341	Fc-gamma-RI recept
C	40	16	80.0	30	17	AAT37047	Probe containing I
C	41	16	80.0	409	22	AAI91382	Human polynucleoti
C	42	16	80.0	428	22	AAK55159	Human immune/haema
C	43	15.8	79.0	239	21	AAC04878	Human secreted pro
C	44	15.8	79.0	375	22	AAI86131	Human polynucleoti
C	45	15.8	79.0	386	22	AAI80344	Human polynucleoti

ALIGNMENTS

RESULT 1
ID AAT33591 standard; DNA: 20 BP.

AC AAT33591;

DT 06-DEC-1996 (first entry)

DE Fcgr1 gene Interleukin-4 response element.

KW Interleukin-4 response element; Fcgr1; probe: Stat 5

KW signal transducer and activator of transcription 5; Stat 5;

KW Interleukin-2; signal transduction; cell proliferation;

KW Immune disorder; ss.

OS Synthetic.

XX Key

FT misc.feature

PD 29-AUG-1996.

XX 22-FEB-1996;

PR 23-FEB-1995;

XX (TUL-) TULARIK INC.

Location/Qualifiers
/*tag- a
/note- *5' biotin label*

PI Hou J, McKnight SL, Schindler U;
 XX WPI; 1996-402382/40.
 XX
 PT Human signal transducer and activator of transcription 5 protein -
 PT used for treating cellular proliferation disorders, pref. of immune
 PT cells
 XX
 PS Example; Page 22; 42pp; English.
 XX
 CC The interleukin-4 (IL-4) response element (AAT33591) of the gene
 CC encoding PcgRIA was biotinylated and attached to streptavidin
 CC agarose to form a DNA-affinity resin. Proteins obtd. from nuclear
 CC extracts of IL-2-induced human lymphocyte YT cells were mixed with
 CC the resin. After incubation, the affinity matrix was washed with
 CC buffer or with buffer contg. a mutated variant (AAT33592) of the IL-4
 CC response element to isolate IL-2-induced transcription factors.
 CC Complexes between DNA and an isolated protein were visualised by a
 CC gel mobility shift assay utilising the same IL-4 response elements
 CC as probes.
 XX
 SQ Sequence 20 BP; 8 A; 4 C; 4 G; 4 T; 0 other;
 XX
 Query Match 100.0%; Score 20; DB 17; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GATATTCGAGAAAGAAC 20
 DB 1 GATATTCGAGAAAGAAC 20
 XX
 RESULT 2
 AAT03680
 ID AAT03680 standard; cDNA; 20 BP.
 XX
 AC AAT03680;
 XX
 DT 29-MAR-1996 (first entry)
 XX
 DE Fc-gamma RI IL4 Stat cytokine binding domain cDNA.
 XX
 KW Interleukin-4 signal transducer and activator of transcription;
 KW IL-4 Stat; transcription factor; immunosuppressive; Fc-gamma RI; ds.
 XX
 OS Homo sapiens.
 XX
 PN EP692488-A2
 XX
 PD 17-JAN-1996.
 XX
 PF 05-JUL-1995; 95EP-0304715.
 XX
 PR 15-JUL-1994; 94US-0276099.
 PR 05-JUL-1994; 94US-0269604.
 XX
 PA (TULA-) TULARIK INC.
 XX
 PI Hou J, McKnight SL;
 XX
 DR WPI; 1996-070143/08.
 XX
 CC IL-4 signal transducer and activator of transcription (IL-4 Stat)
 CC peptide(s) - bind to natural intracellular IL-4 Stat binding target
 CC and are useful to identify cpds. for treatment and diagnosis of
 CC immune diseases
 XX
 PS Disclosure; Page 5; 22pp; English.
 XX
 CC Interleukin-4 signal transducer and activator of transcription
 CC (IL-4 Stat) (AAR88320) is characterized by selective binding to
 CC intracellular domains of cytokine receptors; nucleic acids
 CC encoding IL-4 Stat binding sites are given in AAT03680-86.

CC Preferred binding sites include 2 trinucleotides (TTC and GAA)
 CC separated by 1-5 nucleotides.
 XX
 SQ Sequence 20 BP; 8 A; 4 C; 4 G; 4 T; 0 other;
 XX
 Query Match 100.0%; Score 20; DB 17; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GATATTCGAGAAAGAAC 20
 DB 1 GATATTCGAGAAAGAAC 20
 XX
 RESULT 3
 AAV46013
 ID AAV46013 standard; DNA; 20 BP.
 XX
 AC AAV46013;
 XX
 DT 16-OCT-1998 (first entry)
 XX
 DE Immune adjuvant SPNT5/6.
 XX
 KW Immune system; adjuvant; vaccine; cancer; prophylactic; pathogenicity;
 KW modulator; tolerance; regulator; helper cell; antigen; immunoglobulin;
 KW Ig class; autoimmune response; T-cell; B-cell; tumour; ss.
 XX
 OS Class Bacteria.
 XX
 PN EP85184-A1.
 XX
 PD 29-JUL-1998.
 XX
 PR 23-JAN-1997; 97EP-0101019.
 XX
 PA (HEEG/) HEEG K.
 PA (LIFE/) LIPFORD G B.
 PA (WAGN/) WAGNER H.
 XX
 PI Heeg K, Lipford GB, Wagner H;
 XX
 DR WPI; 1998-389630/34.
 XX
 CC Antigenic composition comprises polynucleotide fragment and antigen
 CC - used as vaccine to treat or prevent e.g. cancer or pathogen
 CC infections and to modulate immune response e.g. tolerance break and
 CC regulation of TH1/TH2 cells
 XX
 PS Example 5; Page 9; 28pp; English.
 XX
 CC AAV45993-VA6019 are fragments of bacterial polynucleotides which are
 CC used as immune adjuvants for inclusion into vaccines to treat cancer and
 CC for prophylaxis and/or treatment of conditions caused by pathogenic
 CC micro-organisms. The polynucleotide is used for modulation of an immune
 CC response and the modulation is selected from the group break of
 CC tolerance, regulation of TH1/TH2 helper cell responses, switch of Ig
 CC classes, treatment of autoimmune responses and induction of tolerances.
 CC DNA oligomers are used to enhance the reactivity of immune cells to
 CC viral, bacterial and parasitic antigens, to break tolerance in anergic T
 CC and B cells e.g. against tumour antigens, as adjuvants in vaccination
 CC against tumour-defined antigens and immunostimulatory substances in an
 CC immune response against tumours and to suppress immune reactions of the
 CC innate and acquired immune system. The composition is inexpensive and
 CC stable and does not cause lethal shock, which happens with prior art
 CC bacterial sequences.
 XX
 SQ Sequence 20 BP; 8 A; 4 C; 4 G; 4 T; 0 other;
 XX
 Query Match 100.0%; Score 20; DB 19; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTTCACGAGAAAGAAC 20
 |||||
 DB 1 GATTTCACGAGAAAGAAC 20

RESULT 6
 AA292039
 ID AA292039 standard; DNA; 20 BP.
 AC AA292039;
 XX
 XX
 DT 08-JUN-2000 (first entry)
 DE
 XX
 XX
 KM STAF5 protein; signal transducer and activator of transcription 5;
 KM protein binding sequence; transcription factor modulator; inhibitor;
 KM malignant cell removal; proliferative malignancy; neoplastic disease;
 KM immunological disorder; inflammatory disorder; therapy; ds.
 OS
 OS Synthetic.
 XX
 XX WO200006696-A2.
 PD 10-FEB-2000.
 XX
 XX 30-JUL-1999; 99WO-US17366.
 PF
 XX 30-JUL-1998; 98US-0094695.
 PR
 XX (USF-) UNIV SOUTH FLORIDA.
 PA
 XX
 PI Zuckerman KS, Liu RY;
 XX
 DR WPI; 2000-195281/17.
 XX
 PT Therapeutic agent for treating transcription factor-related illnesses
 PT such as proliferative malignancies, comprises an oligonucleotide for
 PR regulating transcription factor function -
 XX
 XX
 PS Claim 15; Page 34; 43pp; English.
 CC
 CC This sequence represents a STAF5 (signal transducer and activator of
 CC transcription 5) protein binding sequence. The invention relates to a
 CC therapeutic agent comprising an effective amount of an oligonucleotide
 CC (1) for modulating the function of transcription factors and a
 CC pharmaceutical acceptable carrier. The oligonucleotides can be used in a
 CC method of removing malignant cells in vitro. The oligonucleotides can be
 CC used in compositions to inhibit transcription factors in illnesses where
 CC transcription factors play a role, especially proliferative malignancies,
 CC neoplastic diseases, and immunological and inflammatory disorders.
 CC
 XX
 XX Sequence 20 BP; 8 A; 4 C; 4 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 21; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTTCACGAGAAAGAAC 20
 |||||
 DB 1 GATTTCACGAGAAAGAAC 20

RESULT 7
 AAL39188
 ID AAL39188 standard; DNA; 20 BP.
 AC AAL39188;
 XX
 XX
 DT 05-SEP-2002 (first entry)

DE Murine Toll-like receptor related CpG DNA SEQ ID No 63.
 XX
 XX
 KM Murine Toll-like receptor; TLR9; TLR7; TLR8; ISNA; ds.
 XX
 OS Unidentified.
 XX
 XX WO200222809-A2.
 PN
 PD 21-MAR-2002.
 XX
 XX
 PF 17-SEP-2001; 2001WO-US29229.
 XX
 XX
 PR 15-SEP-2000; 2000US-233035P.
 PR 23-JAN-2001; 2001US-263657P.
 PR 17-MAY-2001; 2001US-291726P.
 PR 22-JUN-2001; 2001US-300210P.
 XX
 PA (COLE-) COLEY PHARM GMBH.
 XX
 XX
 PI Bauer S, Lipford G, Wagner H;
 XX
 DR WPI; 2002-393964/42.
 XX
 XX
 PT New isolated murine Toll-like receptor (TLR9, TLR7, TLR8 polypeptides,
 PT useful for identifying species specificity of immunostimulatory nucleic
 PT acid and identifying immunostimulatory nucleic acids -
 XX
 PS Disclosure; Page 76; 195pp; English.
 CC
 CC The invention relates to isolated murine Toll-like receptors (TLR9,
 CC TLR7 and TLR8 polypeptides. These polypeptides comprise fully defined
 CC sequences of 1032, 1050 or 1032 amino acids as given in specification, or
 CC their fragments, where TLR9, TLR7 and TLR8 polypeptides or their
 CC fragments have an amino acid sequence which is identical to human TLR9,
 CC TLR7 or TLR8 polypeptides or their fragment except for at least one amino
 CC acid of a murine TIR polypeptide. The isolated nucleic acids of the
 CC invention are useful for inhibiting TLR9 signalling activity in a cell.
 CC TLR7, TLR8 and TLR9 polypeptides are useful for identifying nucleic acid
 CC molecules which interact with a TLR polypeptide or its fragment. The
 CC TLR7, TLR8 or TLR9 polypeptides are also useful for identifying ISNA. The
 CC TLR7, TLR8 and TLR9 polypeptides are also useful for comparing TLR9
 CC signalling activity of a test compound (that is not a nucleic acid, and
 CC is a polypeptide or a part of a combinatorial library of compounds) with
 CC an ISNA. The TLR7, TLR8 and TLR9 polypeptides are also useful for
 CC identifying species specificity of an ISNA. The isolated nucleic acids of
 CC the invention are useful as probes or primers. This polynucleotide
 CC sequence represents DNA relating to the isolated Toll-like receptors of
 CC the invention.
 CC
 XX
 XX Sequence 20 BP; 8 A; 4 C; 4 G; 4 T; 0 other;

Query Match 100.0%; Score 20; DB 24; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GATTTCACGAGAAAGAAC 20
 |||||
 DB 1 GATTTCACGAGAAAGAAC 20

RESULT 8
 AA063869
 ID AA063869 standard; DNA; 42 BP.
 AC AA063869;
 XX
 XX
 DT 10-NOV-1994 (first entry)
 DE
 XX
 XX
 KM Protein binding motif GIRE from human R gene 5'-UTR.
 KM Immunoglobulin; Igg receptor; gamma-interferon activation; g-IFN;
 KM haematopoietic cell; protein factor; binding site; GR motif;
 KM human high affinity Fc receptor for Igg; human Fc gamma RI; R gene;

KM DNA response element; MATE motif; GIRE motif; gene therapy; ds.
 XX
 OS Homo sapiens.
 XX
 PN PR2696181-A.
 XX
 PD 01-APR-1994.
 XX
 PF 25-SEP-1992; 92FR-0011498.
 XX
 PR 25-SEP-1992; 92FR-0011498.
 XX
 PA (1NRM) INSERM INST NAT SANTE & RECH MEDICALE.
 XX
 PI Benech P, Perez C, Wietzerbin J;
 XX
 DR WPI; 1994-128281/16.
 XX
 PT New nucleotide sequences are specific target for proteins
 PT exclusive to hematopoietic cells - used to impart, to partic.
 PT cells, a response to gamma-interferon, e.g. for gene therapy
 XX
 PS Claim 10; Page 25; 37pp; French.
 XX
 CC The region immediately upstream of the sequence which codes for the
 CC human high affinity Fc receptor for IgG (the R gene) comprises
 CC binding sites specific for haematopoietic cells (see AA063866-8).
 CC The sequence AA063869, designated the "GIRE" motif, is recognised by
 CC proteins present in both haematopoietic and non-haematopoietic cells
 CC and controls induction by interferon-gamma. The GIRE motif is used
 CC (opt. in multimeric form) with AA063866-8 for conferring on a gene
 CC a transcriptional activity limited to haematopoietic cells. The DNA
 CC motif thus has potential in gene therapy.
 XX
 SQ Sequence 42 BP; 14 A; 6 C; 10 G; 12 T; 0 other;
 XX
 Query Match 100.0%; Score 20; DB 15; Length 42;
 Best Local Similarity 100.0%; Pred. No. 4.4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GTAATTCGCCAGAAAGAAC 20
 DB 23 GTAATTCGCCAGAAAGAAC 42
 XX
 RESULT 9
 ID AAA54479 standard; DNA; 100 BP.
 XX
 AC AAA54479;
 XX
 DT 11-APR-2001 (first entry)
 XX
 DE DNA fragment comprising STAT transcription factors.
 XX
 KM zcytor 10 cytokine receptor; cytokine; receptor; antibody; ligand;
 KM binding; detection; modulation; recombinant cell;
 KM hematopoietic cell; lymphoid cell; myeloid cell; lymph;
 KM immune system; blood; bone; inflammatory response; inflammation;
 KM spleen; human; primer; ss.
 XX
 OS Synthetic.
 XX
 PN WO200068381-A1.
 XX
 PD 16-NOV-2000.
 XX
 PF 11-MAY-2000; 2000WO-US12924.
 XX
 PR 11-MAY-1999; 99US-0309861.
 XX
 PA (ZYMO) ZYMOGENETICS INC.
 XX

PI Presnell SR, Foster DC, Hammond AR, Lok S;
 XX
 DR WPI; 2001-016096/02.
 XX
 PT New cytokine receptor mouse zcytor 10, useful for detecting ligands
 PT that stimulate proliferation or development of hematopoietic,
 PT lymphoid and myeloid cells
 XX
 PS Example 19; Page 128; 134pp; English.
 XX
 CC Isolating a nucleotide which encodes the zcytor 10 cytokine
 CC receptor enables the production of recombinant cells expressing the
 CC receptor. Those cells can then be used to detect the presence of a
 CC modulator of zcytor10 protein by culturing the cells in the presence
 CC of a test ligand and comparing levels of activity of mouse zcytor10
 CC in the presence and absence of the test sample. Similarly, detection
 CC of zcytor10 receptor ligand within a test sample can be achieved.
 CC The method comprising contacting a test sample containing an amino
 CC acid sequence from Cys15 or Gly25 to Pro230 of the zcytor 10
 CC cytokine receptor and detecting the binding of the polypeptide to a
 CC ligand in the sample. Specified peptide fragments of the zcytor 10
 CC cytokine receptor and the methods described are used to identify
 CC ligands that stimulate the proliferation and/or development of
 CC hematopoietic, lymphoid and myeloid cells. Peptide fragments of
 CC the cytokine receptor are useful for treating lymphoid, immune,
 CC inflammatory, splenic, blood or bone disorders and for generating
 CC antibodies directed against the receptor. An exemplary luciferase
 CC mammalian expression vector is the R213 plasmid which was
 CC constructed with two complementary oligonucleotides (AA54479,
 CC AA54480) which comprise STAT transcription factors from 4 genes
 CC (a modified c-fos 5' element, the p21 SIE1 from the p21 WAF1
 CC gene, the mammary gland response element of the beta-casein gene
 CC and a STAT inducible element of the Fcg R1 gene.
 XX
 SQ Sequence 100 BP; 24 A; 33 C; 17 G; 26 T; 0 other;
 XX
 Query Match 100.0%; Score 20; DB 22; Length 100;
 Best Local Similarity 100.0%; Pred. No. 4.8;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GTAATTCGCCAGAAAGAAC 20
 DB 44 GTAATTCGCCAGAAAGAAC 63
 XX
 RESULT 10
 ID AAA54480/C
 XX
 AC AAA54480;
 XX
 DT 11-APR-2001 (first entry)
 XX
 DE DNA fragment comprising STAT transcription factors.
 XX
 KM zcytor 10 cytokine receptor; cytokine; receptor; antibody; ligand;
 KM binding; detection; modulation; recombinant cell;
 KM hematopoietic cell; lymphoid cell; myeloid cell; lymph;
 KM immune system; blood; bone; inflammatory response; inflammation;
 KM spleen; human; primer; ss.
 XX
 OS Synthetic.
 XX
 PN WO200068381-A1.
 XX
 PD 16-NOV-2000.
 XX
 PF 11-MAY-2000; 2000WO-US12924.
 XX
 PR 11-MAY-1999; 99US-0309861.
 XX
 PA (ZYMO) ZYMOGENETICS INC.
 XX

```

PI Presnell SR, Foster DC, Hammond AK, Lok S;
XX
XX WPI: 2001-016096/02.
XX
XX New cytokine receptor mouse zcytor 10, useful for detecting ligands
XX that stimulate proliferation or development of haematopoietic,
XX lymphoid and myeloid cells
XX
XX Example 19; Page 128; 134pp; English.
XX
XX Isolating a nucleotide which encodes the zcytor 10 cytokine
XX receptor enables the production of recombinant cells expressing the
XX receptor. Those cells can then be used to detect the presence of a
XX modulator of zcytor10 protein by culturing the cells in the presence
XX of a test ligand and comparing levels of activity of mouse zcytor10
XX in the presence and absence of the test sample. Similarly, detection
XX of zcytor10 receptor ligand within a test sample can be achieved.
XX The method comprising contacting a test sample containing an amino
XX acid sequence from Cys15 to Gly25 to Pro230 of the zcytor 10
XX cytokine receptor and detecting the binding of the polypeptide to a
XX ligand in the sample. Specified peptide fragments of the zcytor 10
XX cytokine receptor and the methods described are used to identify
XX ligands that stimulate the proliferation and/or development of
XX haematopoietic, lymphoid and myeloid cells. Peptide fragments of
XX the cytokine receptor are useful for treating lymphoid, immune,
XX inflammatory, splenic, blood or bone disorders and for generating
XX antibodies directed against the receptor. An exemplary luciferase
XX mammalian expression vector is the K134 plasmid which was
XX constructed with two complementary oligonucleotides (AA54479,
XX AA55480) which comprise SPAT transcription factors from 4 genes
XX (a modified c-fos sis element, the p21 SIE1 from the p21 WAF1
XX gene, the mammary gland response element of the beta-casein gene
XX and a STAT inducible element of the c-fg R1 gene.
XX
XX Sequence 100 BP; 26 A; 17 C; 33 G; 24 T; 0 other;
XX
XX Query Match 100.0%; Score 20; DB 22; Length 100;
XX Best Local Similarity 100.0%; Pred. No. 4.8;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GTATTTCCAGAAAAGCAGC 20
XX ||||||||||||||||
XX 61 GTATTTCCAGAAAAGCAGC 42
XX
XX RESULT 11
XX ID ABA93801 standard; DNA; 100 BP.
XX
XX ABA93801;
XX
XX 01-MAY-2002 (first entry)
XX
XX K134 plasmid construction oligonucleotide SEQ ID NO:43.
XX
XX zcytor17; chromosome 5; 5q11; cytokine receptor; immunomodulatory;
XX antiinflammatory; antiviral; antirheumatic; antiarthritis; cytostatic;
XX muscular; lymphoid; immune; inflammatory; splenic; blood; bone;
XX infection; immunosuppression; cytotoxicity; leukopenia; Crohn's disease;
XX autoimmune disease; rheumatoid arthritis; multiple sclerosis; cancer;
XX inflammatory disease; pancreaticitis; inflammatory bowel disease;
XX PCR primer; probe; ss.
XX
XX Synthetic.
XX
XX OS
XX PN WO200200721-A2.
XX
XX 03-JAN-2002.
XX
XX 26-JUN-2001; 2001WO-US20484.
XX
XX 26-JUN-2000; 2000US-214282P.
XX
XX 29-JUN-2000; 2000US-214955P.
XX
XX

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XX 08-FEB-2001; 2001US-267963P.
XX
XX (ZYMO ) ZYMOGENETICS INC.
XX
XX Sprecher CA, Presnell SR, Gao Z, Whitmore TE, Kujper JL,
XX Maurer MF;
XX
XX WPI: 2002-090519/12.
XX
XX Isolated polynucleotide encoding a cytokine receptor zcytor17 which is
XX useful for treating and diagnosing lymphoid, immune, inflammatory,
XX splenic, blood or bone disorders -
XX
XX Example 19; Page 190; 235pp; English.
XX
XX The present invention describes a cytokine receptor designated zcytor17.
XX Zcytor17 has immunomodulatory, antiinflammatory, antiviral, cytostatic,
XX antitumoric, antirheritic and muscular activities. The zcytor17
XX proteins are useful for treating and diagnosing lymphoid, immune,
XX inflammatory, splenic, blood or bone disorders. Agonists or
XX anti-zcytor17 antibodies are useful in stimulating cell-mediated
XX immunity and for stimulating lymphocyte proliferation, such as in the
XX treatment of infections involving immunosuppression, including certain
XX viral infections. They are also useful for inducing cytotoxicity and
XX for treating leukopenias. Antagonist of zcytor17 polypeptides are useful
XX for treating autoimmune diseases (e.g. rheumatoid arthritis and multiple
XX sclerosis), inflammatory diseases (e.g. Crohn's disease), cancer,
XX pancreatitis, and inflammatory bowel disease. Zcytor17 was mapped to
XX chromosome 5, specifically to the 5q11 chromosomal region. ABA93767 to
XX ABA93843 and ABB05720 to ABB05745 represent sequences used in the
XX exemplification of the present invention.
XX
XX Sequence 100 BP; 24 A; 33 C; 17 G; 26 T; 0 other;
XX
XX Query Match 100.0%; Score 20; DB 24; Length 100;
XX Best Local Similarity 100.0%; Pred. No. 4.8;
XX Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GTATTTCCTCCAGAAAAGGAC 20
XX |||||||||
XX 44 GTATTTCCTCCAGAAAAGGAC 63
XX
RESULT 12
ABA93802/C
ID ABA93802 standard; DNA; 100 BP.
XX
XX ABA93802:
XX AC
XX DE 01-MAY-2002 (first entry)
XX DT
XX XX KZ134 plasmid construction oligonucleotide SEQ ID NO:44.
XX
XX Zcytor17; chromosome 5; 5q11; cytokine receptor; immunomodulatory;
XX antiinflammatory; antiviral; antirheumatic; antiarthritis; cytostatic;
XX muscular; lymphoid; immune; inflammatory; splenic; blood; bone;
XX infection; immunosuppression; cytotoxicity; leukopenia; Cronh's disease;
XX autoimmune disease; rheumatoid arthritis; multiple sclerosits; cancer;
XX inflammatory disease; pancreatitis; inflammatory bowel disease;
XX PCR primer; probe; ss.
XX
XX Synthetic.
XX OS
XX PN WO200200721-A2.
XX
XX 03-JAN-2002.
XX
XX 26-JUN-2001; 2001WO-US20484.
XX
XX 26-JUN-2000; 2000US-214283P.
XX 29-JUN-2000; 2000US-214955P.
XX 08-FEB-2001; 2001US-267963P.
XX

```


PA (ZYMO) ZYMOGENETICS INC.
 XX Sprecher CA, Presnell SR, Gao Z, Whitmore TE, Kuijper JL;
 PI Maurer MF;
 XX WPI: 2002-090519/12.
 DR
 XX Isolated polynucleotide encoding a cytokine receptor zcytor17 which is
 PT useful for treating and diagnosing lymphoid, immune, inflammatory,
 PT splenic, blood or bone disorders -
 XX
 PS Example 19; Page 190; 235pp; English.
 XX
 CC The present invention describes a cytokine receptor designated zcytor17.
 CC Zcytor17 has immunomodulatory, antiinflammatory, antiviral, cytostatic,
 CC antineoplastic, antitumor and muscular activities. The zcytor17
 CC proteins are useful for treating and diagnosing lymphoid, immune,
 CC inflammatory, splenic, blood or bone disorders. Agonists or
 CC anti-zcytor17 antibodies are useful in stimulating cell-mediated
 CC immunity and for stimulating lymphocyte proliferation, such as in the
 CC treatment of infections involving immunosuppression, including certain
 CC viral infections. They are also useful for inducing cytotoxicity and
 CC for treating leukopenias. Antagonist of zcytor17 polypeptides are useful
 CC for treating autoimmune diseases (e.g. rheumatoid arthritis and multiple
 CC sclerosis), inflammatory diseases (e.g. Crohn's disease), cancer,
 CC pancreatitis, and inflammatory bowel disease. Zcytor17 was mapped to
 CC chromosome 5, specifically to the 5q11 chromosomal region. ABA93767 to
 CC ABA93843 and ABB05730 to ABB05745 represent sequences used in the
 CC exemplification of the present invention.
 XX
 SQ Sequence 100 BP; 26 A; 17 C; 33 G; 24 T; 0 other;
 Query Match 100.0%; Score 20; DB 24; Length 100;
 Best Local Similarity 100.0%; Pred. No. 4.8;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GTATTTCACGAAAGGAC 20
 Db 61 GTATTTCACGAAAGGAC 42

RESULT 13
 AAS20691
 ID AAS20691 standard; DNA; 100 BP.
 XX
 AC AAS20691;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Plasmid K2 134 oligonucleotide ZC12749.
 XX
 KW Cytokine; zalphal1 ligand; zalphal1 receptor; NK cell progenitor;
 KW natural killer cell proliferation; T-cell proliferation;
 KW B-cell proliferation; anti-tumour response; immune system;
 KW immunostimulant; cytostatic; primer; ss.
 XX
 OS Synthetic.
 XX
 PN US6307024-B1.
 PD 23-OCT-2001.
 XX
 PF 09-MAR-2000; 2000US-0522217.
 XX
 PR 09-MAR-1999; 99US-123547P.
 PR 11-MAR-1999; 99US-123904P.
 PR 01-JUL-1999; 99US-142013P.
 XX
 PA (ZYMO) ZYMOGENETICS INC.
 XX
 PI Novak JE, Presnell SR, Sprecher CA, Foster DC, Holly RD, Gross JA;
 PI Johnston JV, Nelson AJ, Dillon SR, Hammond AK;
 XX

DR WPI: 2002-040208/05.
 XX
 XX New zalphal1 ligand polypeptides and polynucleotides, useful for
 PT stimulating proliferation, activation, differentiation and/or induction
 PT of inhibition of specialized cell function, or for stimulating an
 PT antigenic response -
 XX
 PS Example 20; Column 149-150; 105pp; English.
 XX
 CC The present invention relates to the isolation of a novel cytokine,
 CC zalphal1 ligand and the polynucleotide encoding it. The invention
 CC also gives the sequence for the zalphal1 receptor and the polynucleotide
 CC encoding it. The zalphal1 ligand polypeptide stimulates proliferation of
 CC natural killer (NK) cells or NK cell progenitors, the activation of NK
 CC cells, proliferation of T-cells, proliferation of B-cells stimulated
 CC with anti-CD40 antibodies, stimulates an antigenic response in a mammal,
 CC and reduces proliferation of B-cells stimulated with anti-IGM antibodies.
 CC The zalphal1 ligand polypeptide is also useful in preparing antibodies
 CC that bind to zalphal1 ligand epitopes. The zalphal1 ligand
 CC polynucleotides can be used as probes or primers to clone regions
 CC of a zalphal1 ligand gene, and in gene therapy. Zalphal1 ligand may
 CC also be used to identify inhibitors of its activity, to enhance the
 CC generation of anti-tumour responses with or without the infusion of
 CC donor lymphocytes, and to activate or stimulate the immune system.
 CC The present sequence represents an oligonucleotide used to construct
 CC plasmid K2 134 in the methods of the present invention.
 XX
 SQ Sequence 100 BP; 25 A; 32 C; 17 G; 26 T; 0 other;
 Query Match 100.0%; Score 20; DB 24; Length 100;
 Best Local Similarity 100.0%; Pred. No. 4.8;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GTATTTCACGAAAGGAC 20
 Db 44 GTATTTCACGAAAGGAC 63

RESULT 14
 AAS20692/c
 ID AAS20692 standard; DNA; 100 BP.
 XX
 AC AAS20692;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Plasmid K2 134 oligonucleotide ZC12748.
 XX
 KW Cytokine; zalphal1 ligand; zalphal1 receptor; NK cell progenitor;
 KW natural killer cell proliferation; T-cell proliferation;
 KW B-cell proliferation; anti-tumour response; immune system;
 KW immunostimulant; cytostatic; primer; ss.
 XX
 OS Synthetic.
 XX
 PN US6307024-B1.
 PD 23-OCT-2001.
 XX
 PF 09-MAR-2000; 2000US-0522217.
 XX
 PR 09-MAR-1999; 99US-123547P.
 PR 11-MAR-1999; 99US-123904P.
 PR 01-JUL-1999; 99US-142013P.
 XX
 PA (ZYMO) ZYMOGENETICS INC.
 XX
 PI Novak JE, Presnell SR, Sprecher CA, Foster DC, Holly RD, Gross JA;
 PI Johnston JV, Nelson AJ, Dillon SR, Hammond AK;
 XX
 DR WPI: 2002-040208/05.
 PT New zalphal1 ligand polypeptides and polynucleotides, useful for

PT stimulating proliferation, activation, differentiation and/or induction
PT of inhibition of specialized cell function, or for stimulating an
PT antigenic response -
XX
XX
PS Example 20; Column 149-151; 105bp; English.
XX
CC The present invention relates to the isolation of a novel cytokine,
CC zai1pha1 ligand and the polynucleotide encoding it. The invention
CC also gives the sequence for the zai1pha1 receptor and the polynucleotide
CC encoding it. The zai1pha1 ligand polypeptide stimulates proliferation of
CC natural killer (NK) cells or NK cell progenitors, the activation of NK
CC cells, proliferation of T-cells, proliferation of B-cells stimulated
CC with anti-CD40 antibodies, stimulates an antigenic response in a mammal,
CC and reduces proliferation of B-cells stimulated with anti-19m antibodies.
CC The zai1pha1 ligand polypeptide is also useful in preparing antibodies
CC that bind to zai1pha1 ligand epitopes. The zai1pha1 ligand
CC polynucleotides can be used as probes or primers to clone regions
CC of a zai1pha1 ligand gene, and in gene therapy. Zai1pha1 ligand may
CC also be used to identify inhibitors of its activity, to enhance the
CC generation of anti-tumour responses with or without the infusion of
CC donor lymphocytes, and to activate or stimulate the immune system.
CC The present sequence represents an oligonucleotide used to construct
CC plasmid K2.134 in the methods of the present invention.
CC
XX
SQ Sequence 100 BP; 26 A; 17 C; 32 G; 25 T; 0 other;

Query Match 100.0%; Score 20; DB 24; Length 100;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTAATTTCCGAGAAAGAAC 20
DB 61 GTAATTTCCGAGAAAGAAC 42

RESULT 15
AAD22953
ID AAD22953 standard; DNA; 100 BP.
XX
AC AAD22953;
XX
DT 26-FEB-2002 (first entry)
XX
DE Baf3/K2134/zai1pha1 cell line constructing ZC12.749 oligonucleotide.
XX
XX zai1pha1; cytokine receptor; immunosuppressive; cytostatic; haemostatic;
KW inflammatory disorder; cell proliferation; immune disorder; cancer; SLB;
KW systemic lupus erythematosus; myasthenia gravis; rheumatoid arthritis;
KW diabetes; autoimmune disease; multiple sclerosis; ulcerative colitis;
KW inflammatory bowel disease; sepsis; Crohn's disease; viral infection;
KW asthma; ss.
XX
XX Unidentified.
OS
XX
XX WO200177171-A2.
PN
XX 18-OCT-2001.
PD
XX
XX 03-APR-2001; 2001WO-US10872.
PF
XX 05-APR-2000; 2000US-194731P.
PR 28-JUL-2000; 2000US-222121P.
PR
XX (ZYMO) ZYMOGENETICS INC.
PA
XX Sprecher CA, Novak JE, West JW, Presnell SR, Holly RD, Nelson AJ;
PI
XX WPI; 2002-025898/03.
DR
XX Novel soluble receptor polypeptides and polynucleotides used as
PT cytokine antagonist for stimulating ligand activity-induced
PT proliferation of hematopoietic cells and for suppressing immune
PT response in a mammal -

XX
XX
PS Example 19; Page 213; 243bp; English.
XX
CC The invention relates to an isolated soluble zai1pha1 cytokine receptor
CC polypeptide and their cDNA molecules. Zai1pha proteins are useful for
CC inhibiting or antagonising the ligand activity-induced proliferation of
CC haematopoietic cells and haematopoietic cell progenitors preferably
CC lymphoid cells which are natural killer cells or cytotoxic T cells.
CC Zai1pha is useful for treating immune and inflammatory disorders, for
CC reducing proliferation of neoplastic B or T cells, for suppressing an
CC immune response in a mammal exposed to an antigen or pathogen. Zai1pha is
CC useful for treating diseases that require immune regulation including
CC autoimmune diseases such as rheumatoid arthritis, multiple sclerosis,
CC myasthenia gravis, systemic lupus erythematosus (SLE) and diabetes;
CC asthma, ulcerative colitis, inflammatory bowel disease, Crohn's disease,
CC sepsis, viral infection (dengue virus infection) and cancer. The present
CC sequence is an oligonucleotide used for Baf3/K2134/zai1pha1 cell line
CC construction.
XX
SQ Sequence 100 BP; 24 A; 33 C; 17 G; 26 T; 0 other;

Query Match 100.0%; Score 20; DB 24; Length 100;
Best Local Similarity 100.0%; Pred. No. 4.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTAATTTCCGAGAAAGAAC 20
DB 44 GTAATTTCCGAGAAAGAAC 63

Search completed: June 26, 2003, 12:16:35
Job time : 229.158 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 09:56:18 ; Search time 1028.48 Seconds

(without alignments)
565,939 Million cell updates/sec

Title: US-09-355-254F-16

Perfect score: 20

Sequence: 1 gtcacatcccgtaactct 20

Scoring table: IDENTITY_NTC

Searched: 2054640 segs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: gb_ba:*
2: gb_hcg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vi:*
30: em_htg_hum:*
31: em_htg_iny:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rod:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htg_hum:*
40: em_htg_mus:*
41: em_htg_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	6	A89795
2	20	100.0	20	6	A80882
3	20	100.0	20	6	AX455587
4	19	95.0	123291	6	AC104070
5	17.4	87.0	22	6	AX040434
6	17.4	87.0	105428	2	AC094579
7	17.4	87.0	164383	2	AC127444
8	17	85.0	19	6	181948
9	16.8	84.0	2274	1	AF498313
10	16.8	84.0	35409	3	CEC44C10
11	16.8	84.0	36727	9	AL512289
12	16.8	84.0	37154	3	AF025467
13	16.8	84.0	71198	2	AC127624
14	16.8	84.0	76922	5	AC087104
15	16.8	84.0	95594	2	AC122615
16	16.8	84.0	96075	2	AC018294
17	16.8	84.0	97242	8	AC051630
18	16.8	84.0	97310	2	AC103083
19	16.8	84.0	107658	2	AC119592
20	16.8	84.0	108713	2	AC108963
21	16.8	84.0	110000	2	CEX1182.2
22	16.8	84.0	115530	2	AC120980
23	16.8	84.0	115984	9	HS292F10
24	16.8	84.0	127695	2	AC111722
25	16.8	84.0	139838	2	AL357652
26	16.8	84.0	141908	2	AC123282
27	16.8	84.0	142157	2	AC102412
28	16.8	84.0	146056	2	AC128899
29	16.8	84.0	152854	2	AC110514
30	16.8	84.0	159933	2	AC109935
31	16.8	84.0	164583	2	AC098073
32	16.8	84.0	165454	2	AC113097
33	16.8	84.0	169620	2	AC012674
34	16.8	84.0	169656	2	AC097292
35	16.8	84.0	173548	2	AC094369
36	16.8	84.0	173906	2	AC121059
37	16.8	84.0	177786	2	AC093609
38	16.8	84.0	179260	3	AC007770
39	16.8	84.0	182730	2	AC016735
40	16.8	84.0	184258	2	AC117231
41	16.8	84.0	184380	10	AC124521
42	16.8	84.0	192761	2	AC125874
43	16.8	84.0	196785	2	AC120065
44	16.8	84.0	199289	9	AC012378
45	16.8	84.0	236774	2	AL772275

ALIGNMENTS

RESULT 1
A89795 LOCUS 20 bp DNA
DEFINITION Sequence 17 from Patent WO9832462.
ACCESSION A89795
VERSION A89795.1 GI:6738309
KEYWORDS
SOURCE unidentified.
ORGANISM unclassified.
REFERENCE 1 (bases 1 to 20)
AUTHORS Lipford,G.B. and Heeg,K.
TITLE PHARMACEUTICAL COMPOSITIONS COMPRISING A POLYNUCLEOTIDE AND
OPTIONALLY AN ANTIGEN ESPECIALLY FOR VACCINATION
JOURNAL Patent: WO 9832462-A 17 30-JUL-1998;

Pred. No. is the number of results predicted by chance to have a

FEATURES LIPFORD GRAYSON B (DE); HEBG KLAUS (DE)
 Location/Qualifiers
 1..20
 /organism="unidentified"
 /db_xref="taxon:32644"

BASE COUNT 4 a 6 c 2 g 8 t

ORIGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCATTTCGGTAATCTT 20
 |||||
 1 GTCATTTCGGTAATCTT 20

Db 1 GTCATTTCGGTAATCTT 20

RESULT 2

LOCUS A90882 20 bp DNA linear PAT 22-JAN-2000
 DEFINITION Sequence 17 from Patent EP0855184.
 ACCESSION A90882
 VERSION A90882.1 GI:6739307
 KEYWORDS
 SOURCE unidentified.
 ORGANISM unidentified.
 REFERENCE 1 (bases 1 to 20)
 Heeg, K.P. and Lipford, G.B.
 Pharmaceutical composition comprising a polynucleotide and an
 antigen especially for vaccination
 Patent: EP 0855184-A 17 29-JUL-1998;
 JOURNAL HEBG KLAUS PROF DR (DE); LIPFORD GRAYSON B DR (DE)
 TITLE Location/Qualifiers
 1..20
 /organism="unidentified"
 /db_xref="taxon:32644"

BASE COUNT 4 a 6 c 2 g 8 t

ORIGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCATTTCGGTAATCTT 20
 |||||
 1 GTCATTTCGGTAATCTT 20

Db 1 GTCATTTCGGTAATCTT 20

RESULT 3

AX455587 20 bp DNA linear PAT 06-JUL-2002
 LOCUS AX455587
 DEFINITION Sequence 64 from Patent WO0222809.
 ACCESSION AX455587
 VERSION AX455587.1 GI:21714655
 KEYWORDS
 SOURCE synthetic construct.
 ORGANISM synthetic construct.
 REFERENCE 1
 Bauer, S., Lipford, G. and Wagner, H.
 Process for high throughput screening of cpg-based
 immuno-agonist/antagonist
 Patent: WO 0222809-A 64 21-MAR-2002;
 JOURNAL Coley Pharmaceutical GmbH (DE)
 TITLE Location/Qualifiers
 1..20
 /organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="Synthetic oligonucleotide"

BASE COUNT 4 a 6 c 2 g 8 t

ORIGIN

Query Match 100.0%; Score 20; DB 6; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCATTTCGGTAATCTT 20
 |||||
 1 GTCATTTCGGTAATCTT 20

Db 1 GTCATTTCGGTAATCTT 20

RESULT 4

AC104070 123291 bp DNA linear PRI 29-MAY-2002
 LOCUS AC104070
 DEFINITION Homo sapiens BAC clone RP11-279K24 from 4, complete sequence.
 ACCESSION AC104070 AC068461
 VERSION AC104070.3 GI:20279508
 KEYWORDS HTG.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens.
 REFERENCE 1
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 123291)
 Sulston, J.E. and Waterston, R.
 TITLE Howard, a complete human genome sequence
 JOURNAL Genome Res. 8 (11), 1097-1108 (1998)
 MEDLINE 99063792
 PUBMED 9847074

REFERENCE 2 (bases 1 to 123291)
 Desai, A., Kozlowicz, A. and Boyer, E.
 The sequence of Homo sapiens BAC clone RP11-279K24
 Unpublished (2001)
 3 (bases 1 to 123291)
 Waterston, R.H.
 REFERENCE 3
 Direct Submission
 Submitted (03-DEC-2001) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 4 (bases 1 to 123291)
 Waterston, R.H.
 REFERENCE 4
 Direct Submission
 Submitted (24-APR-2002) Genome Sequencing Center, Washington
 University School of Medicine, 4444 Forest Park Parkway, St. Louis,
 MO 63108, USA
 5 (bases 1 to 123291)
 Waterston, R.
 REFERENCE 5
 Direct Submission
 Submitted (29-MAY-2002) Department of Genetics, Washington
 University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
 On Apr 24, 2002 this sequence version replaced gi:18030153.

COMMENT

Genome Center
 Center: Washington University Genome Sequencing Center
 Center code: WUGSC
 Web site: <http://genome.wustl.edu/gsc>
 Contact: saplens@watson.wustl.edu
 ----- Summary Statistics
 Center project name: H_NH0279K24
 Drafting Center: WIBR

NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:
 Mapping information for this clone was provided by Dr. John D.

Nov, 98.

27 14:14:47 2003

us-09-355-254f-16.rge

McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
The RPCL11 human BAC library was made from the blood of one male donor, as described by Osoegwa, K., Moon, P.Y., Zhao, B., Frengen, E., Ratanu, M., Catanesu, J.J., and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome from libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>

VECTOR: pBAC3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-45120, 2000 bp overlap; the clone sequenced to the right is RP11-173M11. Actual start of this clone is at base position 108871 of RP11-45120; actual end is at base position 123291 of RP11-279K24.

Unresolved tandem repeats exist between 44681 and 46316. Polymorphisms exist between AC096659, AC0110771 and AC104070. from AC110771 was used to finish AC104070.

The sequence of AC068461 has been incorporated into AC104070.

FEATURES
source

Location/Qualifiers
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Query Match 95.0%; Score 19; DB 9; Length 123291;
Best Local Similarity 100.0%; Pred. No. 60;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

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DB 18891 TCCATTCCCGTAATCTT 18909

27 14:14:47 2003

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Query Match
 Best Local Similarity 94.78; 0; Mismatches 1; Indels 0; Gaps 0;
 Matches 18; Conservative 18; TCCATTCCCGTAAATCTT 20
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 Db 96461 TCCATTCCCGTAAATCTT 96443

RESULT 7
 AC127444/c 164383 bp DNA linear RTG 31-JUL-2002
 LOCUS Rattus norvegicus clone CH230-254F10, *** SEQUENCING IN PROGRESS
 DEFINITION *** 58 unordered pieces.

ACCESSION AC127444.2 GI:12953657
 AC127444
 VERSION RTG: RTGS PHASEL.
 KEYWORDS Norway rat.
 SOURCE Rattus norvegicus
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;

REFERENCE
 AUTHORS
 1 (bases 1 to 164383) Adlo-Oduola, B., Ali-osman, F., Allen, C.,
 Muszy, D.M., Adams, C., Amaral, H.C., Aze, J.R., Ayale, M., Banks, T.,
 Alsbrooks, S.L., Amaratunga, H.C., Aze, J.R., Blomberg, K., Bonnin, D.,
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 Gorrell, J.H., Guevara, M., Gunaratne, P., Hale, S., Hamilton, K.,
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 Homsi, F., Howard, S., Huber, J., Huliy, S., Hume, J., Jackson, L.E.,
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 Williams, G., Williamson, A., Wleczek, R., Wooden, S., Worley, K.,
 Wu, C., Wu, Y., Wu, Y., Zhou, J., Zorilla, S., Nelson, D.,
 Weinstein, G., and Gibbs, R.,
 Direct Submission
 Unpublished
 2 (bases 1 to 164383)
 Morley, K.C.
 Direct Submission
 Submitted (17-JUL-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 164383)
 Morley, K.C.
 Direct Submission
 Submitted (31-JUL-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Jul 24, 2002 this sequence version replaced gi:21866827.
 ----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GNRV
 Center clone name: CH230-254F10
 ----- Summary Statistics
 Sequencing vector: Plasmid
 Chemistry: Dye-terminator Big Dye 100% of reads
 Assembly program: Phrap: version 0.990329
 Consensus quality: 110846 bases at least Q40
 Consensus quality: 116562 bases at least Q30
 Consensus quality: 120375 bases at least Q20

NOTE: Estimated insert size may differ from sequence length
 NOTE: This is a "working draft" sequence. It currently
 consists of 58 contigs. The true order of the pieces
 is not known and their order in this sequence record is
 arbitrary. Gaps between the contigs are represented as
 runs of N, but the exact sizes of the gaps are unknown.
 This record will be updated with the finished sequence
 as soon as it is available and the accession number will
 be preserved.

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REFERENCE	1 (bases 1 to 19)			
AUTHORS	Seidel, H. Martin., Lamb, I. Peter. and Chan, S.-S. Tian.			
TITLE	Methods for detecting modulators of cytokine action			
JOURNAL	Patent: US 5712094-A 46 27 JAN 1998;			
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	LOCUS	
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	ACCESSION	
	VERSION	GI:20269892
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REFERENCE TITLE		Streptococcus . 1 (bases 1 to 2274) Ween,O., Teigen,S., Gaustad,P., Kilian,M. and Havarstein,L.S. Competence without a competence pheromone in a natural isolate of Streptococcus infantis J. Bacteriol. 184 (13), 3426-3432 (2002)
JOURNAL MEDLINE PUBMED		22053306 12057935
REFERENCE AUTHORS		2 (bases 1 to 2274) Ween,O., Teigen,S., Gaustad,P., Kilian,M. and Havarstein,L.S.
TITLE		Direct Submission
JOURNAL		Submitted (03-APR-2002) Department of Chemistry and Biotechnology

DB	QY	Matches	Best Local	Similarity	18: Conservative	Score	16: 8;	DB 1;	Length	2274;
936	GTCAATTCCTCGTAATTCCT	917	1	90.0%	0;	12;	Indels	0;	Gaps	0;
	1	GTCCATTTCCGTAATTCCT	20							
	111	111111111111111111								

[illegible]

COMMENT

Genetics, Washington University, St. Louis, MO 63110, USA. E-mail: jess@sanger.ac.uk or twenemate@wustl.edu

On Nov 13, 1998 this sequence version replaced gi:1212826. Coding sequences below are predicted from computer analysis, using predictions from GeneFinder (P. Green, U. Washington), and other available information.

Current sequence finishing criteria for the C. elegans genome sequencing consortium are that all bases are either sequenced unambiguously on both strands, or on a single strand with both a primer and dye terminator reaction, from distinct subclones. Exceptions are indicated by an explicit note, from distinct subclones. It may be shorter because we only sequence overlapping sections once, or longer because we arrange for a small overlap between neighbouring submissions.

The true left end of clone C44C10 is at 28483 in sequence 265565. The true right end of clone C44C10 is at 35409 in this sequence. The right end of clone D1053 is at 33368 in this sequence. The end of this sequence (1..115) overlaps with the end of sequence 265565. The end of this sequence (35347..35409) overlaps with the start of sequence 265565.

For a graphical representation of this sequence and its analysis see: - <http://wormbase.sanger.ac.uk/perl/ace/elegans/seq/sequence?name=C44C10>

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IMPORTANT: This sequence is NOT necessarily the entire insert of the specified clone. It may be shorter because the entire insert overlaps sections once, or longer because we only sequence overlapping sections once, or longer because we arrange for a small overlap between neighbouring submissions.

Location/Qualifiers

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gene
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gene
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gene
CDS

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/gene="C44C10.3"

/note="predicted using GeneFinder
 contains similarity to Pfam domain: PF00083 (Sugar (and
 other) transporter), Score=98.8, E-value=0.00078, N=1"
 /codon_start=1
 /protein_id="CAA93635.1"
 /db_xref="GI:3874977"
 /db_xref="SPTREMBL:Q18613"
 /translation="MEYDNRPHLCVFYTWLVNFVAGQYENIFSIVHPRKMGDGP
 VTKCKXQVCPNDLTFVDPIETFSYAMFEGSLNAGVLCAMFLIPESAIWLSRKE
 IRAFFNGWGRVPIYVQCYLOEMRLASVCAACLVPLNGLPKFLVPMIFVAVC
 TAKNIESKRPAGKAGSYVPIERKLHSKTLLEPLNGLPKFLVPMIFVAVC
 GRANDINSLAGNGLYNALFGILLVLEKYLLEVDKLFENFRRTIHOSSQGMII
 SFLLAIPLMDYHGTGFLVYLFEGFMETWDVAYLCALISNRTSSRAVSQSL
 MRLGISLAPFLYATMTWMPNPAVFYIIVGAVNLIIISMFLQETKRNINDEGVND
 ENQERKMLQY"
 complement(join(21983..22039,22085..22371,22741..22945,
 22993..23172,23659..23847,23892..24010,25399..26203,
 26251..26301,26703..26846,27118..27279))
 /gene="C44C10.2"
 complement(join(21983..22039,22085..22371,22741..22945,
 22993..23172,23659..23847,23892..24010,25399..26203,
 26251..26301,26703..26846,27118..27279))
 /note="Similarity to Drosophila cytochrome P450 (PIR Acc.
 No. S34291), contains similarity to Pfam domain: PF00067
 (Cytochrome P450) Score=155.8, E-value=9.4e-44, N=2
 cDNA EST EMBL:U0211318 comes from this gene"
 cDNA EST EMBL:U0199850 comes from this gene"
 /codon_start=1
 /protein_id="CAA93636.1"
 /db_xref="GI:3874978"
 /db_xref="SPTREMBL:Q27480"
 /db_xref="SPTREMBL:Q27480"

assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: EMBL: EMBL; SW: SWISSPROT; Tr: TREMBL; Wp: WORMPEP; Information on the sequence database can be found at http://www.sanger.ac.uk/projects/C_elegans/wormpep This sequence was generated from part of bacterial clone contigs of human chromosome 6, constructed by the Sanger Centre chromosome 6 Mapping Group. Further information can be found at <http://www.sanger.ac.uk/HGP/Ch6Rp11-25619> is from the library RPc1-11.1 constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/bacpac/home.htm>

VECTOR: pBAC3.6.

Location/Qualifiers

[illegible]

AUTHORS
TITLE
JOURNAL

Waterston, R.
Direct Submission
Submitted (31-MAY-2002) Department of Genetics, Washington
University, Genome Sequencing Center, 4444 Forest Park Avenue, St.
Louis, MO 63110, USA
COMMENT
Submitted by:

Genome Sequencing Center
Department of Genetics, Washington University
St. Louis, MO 63110, USA, and
Sanger Centre, Hinxton Hall
Cambridge CB10 1RO, England
email: rwaterston@wustl.edu and jess@anger.ac.uk

NOTICE: This sequence may not be the entire insert of this clone.
It may be shorter because we only sequence overlapping sections.
once, or longer because we provide a small overlap between
neighboring submissions.

This sequence was finished as follows unless otherwise noted: all
regions were double stranded, sequenced with an alternate chemistry
or covered by high quality data (i.e., phred quality > 30); an
attempt was made to resolve all sequencing problems, such as
compressions and repeats; all regions were covered by sequence from
more than one m13 subclone.

For a graphical representation of this cosmid sequence and its
analysis see:
http://www.wormbase.org/db/seq/sequence?name=R148;class=Sequence

NEIGHBORING COSMID INFORMATION

The 5' cosmid is C44B11, 900 bp overlap; the 3' cosmid is H09G03,
2400 bp overlap. Actual start of this cosmid is at base position
895 of R148; actual end is at 37154 of R148.

NOTES:

Coding sequences below are the result of integration and manual
review of the following data: computer analysis using the program
GeneFINDER (P. Green and U. Hiltner, personal communication), the
large scale EST projects of Yui Kohara
(http://www.ddb.jgi.doe.gov/), the
elegans ORFome cloning project (http://wustl.edu/~dick/harvard.edu/),
similarity to other proteins from BlastX analyses
(http://blast.wustl.edu/), sequence conservation with C. briggsae
and Drosophila (10.1155-1125, 2000), individual C. elegans GenBank submissions,
and personal communications with C. elegans researchers. ERNs
are predicted using the program ERNscan-SE (Lowe, T.M. and
Eddy, S.R., 1997, Nucl. Acids. Res., 25, 955-964).

FEATURES
source

gene

CDS

Location/Qualifiers
1..37154
/organism="Caenorhabditis elegans"
/strain="Bristol N2"
/db_xref="taxon:6239"
/chromosome="III"
/clone="R148"
95..4939
/gene="R148.5"
/note="for a graphical representation of this gene see:
http://www.wormbase.org/db/seq/sequence?name=R148.5;class=
Sequence"
join(95..435,939..1303,2277..2489,3336..4014,4475..4559,
4844..4939)
/note="contains similarity to drosophila DNA-binding
protein K10 (M10:98148); coded for by the following C.
elegans cDNAs: YK211a11.3, YK466a5.3, YK172f2.3,
YK13f3.3, YK64h11.3, YK466a5.3, YK79b6.3, YK79b6.5,
YK185a2.5, YK13f3.5, YK18e11.3, YK18e11.5, YK172f2.5,
YK466a5.5, YK18h12.5, CEES186f, YK211a11.5, YK461h5.5,
/codon_start=1

gene

CDS

gene

CDS

/product="Hypothetical protein R148.5"
/protein_id="AA071039.1"
/db_xref="GI:2429509"
/translation="MVDKRIQETKMSVFSIDMSKNNKIKFLPKFEKFFS
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GGGEQEPDIPSPANIPSPPIETFAALFRTTGVKYLECHGICAVRYVNGEVK
VAVETFMILRMDERIPGICAKIKESGDSRSPSSSETEEDVVEERKNKNC
QERODGSDSVSISSLVNKKASBEGSRGALVPEDEEEDVVEERKNKNC
PNNRPGPNNRPNYAMRPPFGFPPPPGPPPPPPHMGKMPDNDLSYRG
MGPPGPP
GAPPEAVGATGGEPPASVOPANGDGYETVDFPKRGTGKGEASVASTRAS
AMDYEGATGPPPHINKASGTRLSMAKETSINATLNSEHAEVASQVETEITRPD
SPVDYEAERKMKLENSRRAPPTN"
5716..6352
/gene="R148.4"
/note="for a graphical representation of this gene see:
http://www.wormbase.org/db/seq/sequence?name=R148.4;class=
Sequence"
join(5716..5802,5915..6154,6236..6352)
/gene="R148.4"
/product="Hypothetical protein R148.4"
/protein_id="AA071035.1"
/db_xref="GI:2429505"
/translation="MSKANSFGALPSFKPPRCCGIVENSVLTLTLTLTLTL
LELITRERDIDNSAICRQIRLIFDAPYPRQIQISGPKANNV"
9383..14111
/gene="R148.3"
/note="for a graphical representation of this gene see:
http://www.wormbase.org/db/seq/sequence?name=R148.3;class=
Sequence"
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10855..11330,11689..11841,11895..13224,13832..14111)
/gene="R148.3"
/note="contains weak similarity to human mltotic growth
coded for by the following C. elegans cDNAs: YK507a8.5,
YK15d12.5, YK16f89.5, YK598d4.5
/codon_start=1
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/protein_id="AA071038.2"
/db_xref="GI:15011786"
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DIPPAKAVKQINDPEFLNLAETISVAVAFEDRDIDEGKINGSGNGFFVAGAI
NGLPADPEIPIDPEAPTHGSHGSHGSHGSHGSHGSHGSHGSHGSHGSHGSHG
PAEPVPADLEMDAETIRLLKEERKKNVAAQPPVAPPPAPKPIEAPK
VTEPPEAPVIAQYIOETTPPALEAPVAPVAPVAPVAPVAPVAPVAPVAPVAP
NSNSIYPADPKVEEPERPAEPAPADPEVAPVAPVAPVAPVAPVAPVAPVAPVAP
APPPAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAP
KEAVAAAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAPPEAP
ASFVLYITIRLSGSGSDILDAQHDLMNNKELIQQLAKITETIIONAANAAQ
QANDYOPPELESSELELARIHVSARALMSQSDGROELMEQALREIYKIK
DNLAERNNDLIDKTAQLOYSLELEELKNNKLEIQVQLKEELKEELSVAGS
GNSGKSDIDNEVEAVOPDETTPSSNSNENKLEAELEAELEAELEAELEAELEAE
RNIYKNEKTLTASDKENRSOIMENKLNKESDLEAELEAELEAELEAELEAELEAE
KNLNQSKSAENDKMLTOLREAPARKKOLLEHDSYLRKDKITELDAEKRYKME
YKLETKSEHDVRLKLMDEEIKTOLSAAGGVTSRSIPRLVSPILQEPIDPEPPAL
QRYVLPDGSYSRRSRSSRSGLPFGAESPDDEKQAAPIRRSRSHGROPPSEFD
PSPMLSLAIPPGCAKPPGKPPGGEF"
17695..19004
/gene="R148.2"
/note="for a graphical representation of this gene see:
http://www.wormbase.org/db/seq/sequence?name=R148.2;class=
Sequence"
join(17695..17729,18063..18141,18456..18581,18849..19004)
/gene="R148.2"
/note="coded for by the following C. elegans cDNAs
CEESX94f"

gene

CDS

Sequence
join(17695..17729,18063..18141,18456..18581,18849..19004)
/gene="R148.2"
/note="coded for by the following C. elegans cDNAs
CEESX94f"


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* * * 27078 28017: contig of 1740 bp in length
* * * 28018 28917: gap of unknown length
* * * 28918 30270: contig of 1353 bp in length
* * * 30271 30370: gap of unknown length
* * * 30371 31639: contig of 1265 bp in length
* * * 31640 31739: gap of unknown length
* * * 31740 33141: contig of 1402 bp in length
* * * 33142 33241: gap of unknown length
* * * 33242 34943: contig of 1702 bp in length
* * * 34944 35043: gap of unknown length
* * * 35044 36744: contig of 1701 bp in length
* * * 36745 36844: gap of unknown length
* * * 36845 38572: contig of 1728 bp in length
* * * 38573 38672: gap of unknown length
* * * 38673 40895: contig of 2223 bp in length
* * * 40896 43558: gap of unknown length
* * * 43559 43559: contig of 2563 bp in length
* * * 43559 44698: gap of unknown length
* * * 44699 44798: contig of 1040 bp in length
* * * 44799 47265: gap of unknown length
* * * 47266 47365: contig of 2467 bp in length
* * * 47366 48435: gap of unknown length
* * * 48436 48535: contig of 1070 bp in length
* * * 48536 50462: gap of unknown length
* * * 50463 50562: contig of 1927 bp in length
* * * 50563 51711: gap of unknown length
* * * 51712 51811: contig of 1149 bp in length
* * * 51812 52825: gap of unknown length
* * * 52826 52925: contig of 1014 bp in length
* * * 52926 54065: gap of unknown length
* * * 54066 54165: contig of 1140 bp in length
* * * 54166 55170: gap of unknown length
* * * 55171 55270: contig of 1005 bp in length
* * * 55271 56773: gap of unknown length
* * * 56774 56873: contig of 1503 bp in length
* * * 56874 59367: gap of unknown length
* * * 59368 59467: contig of 2494 bp in length
* * * 59468 61502: gap of unknown length
* * * 61503 61602: contig of 2035 bp in length
* * * 61603 62859: gap of unknown length
* * * 62860 62959: contig of 1257 bp in length
* * * 62960 65335: gap of unknown length
* * * 65336 65335: contig of 2276 bp in length
* * * 65336 67974: gap of unknown length
* * * 67975 68074: contig of 2639 bp in length
* * * 68075 70327: gap of unknown length
* * * 70328 70426: contig of 2252 bp in length
* * * 70427 72204: gap of unknown length
* * * 72205 72304: contig of 1778 bp in length
* * * 72305 73946: gap of unknown length
* * * 73947 74046: contig of 1642 bp in length
* * * 74047 77136: gap of unknown length
* * * 77137 77236: contig of 3090 bp in length
* * * 77237 79433: gap of unknown length
* * * 79434 79533: contig of 2197 bp in length
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* * * 81648 81747: contig of 2114 bp in length
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* * * 83500 83599: contig of 1752 bp in length
* * * 83600 86636: gap of unknown length
* * * 86637 86736: contig of 3037 bp in length
* * * 86737 90821: gap of unknown length
* * * 90822 90921: contig of 4085 bp in length
* * * 90922 95594: gap of unknown length
* * * 95594 95594: contig of 4673 bp in length.

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Location/Qualifiers
1. 95594

Organism="Rattus norvegicus"
/db_xref="taxon:10116"

84.08: Score 16.8; DB 2: Length 95594;
90.08: Pred. No. 8.6e+02;

Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0,
Qy 1 GTCCATTTCCTTAATCTT 20
Db 68221 GTCCATTTCCTTAATTTT 68202

Search completed: June 26, 2003, 16:13:28
Job time : 1033.48 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: June 26, 2003, 09:56:18 ; Search time 925.63 Seconds

(without alignments)
565.939 Million cell updates/sec

Title: US-09-355-254F-10

Perfect score: 18

Sequence: 1 agcctagacgttcccaag 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2054640 segs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl : *

1: gb_da : *

2: gb_htg : *

3: gb_in : *

4: gb_om : *

5: gb_ov : *

6: gb_pat : *

7: gb_ph : *

8: gb_pl : *

9: gb_pr : *

10: gb_ro : *

11: gb_sts : *

12: gb_sy : *

13: gb_un : *

14: gb_vl : *

15: em_da : *

16: em_fun : *

17: em_hum : *

18: em_in : *

19: em_mu : *

20: em_om : *

21: em_or : *

22: em_ov : *

23: em_pat : *

24: em_ph : *

25: em_pl : *

26: em_ro : *

27: em_sts : *

28: em_un : *

29: em_vl : *

30: em_htg_hum : *

31: em_htg_inv : *

32: em_htg_other : *

33: em_htg_mus : *

34: em_htg_pln : *

35: em_htg_rnd : *

36: em_htg_man : *

37: em_htg_vrt : *

38: em_sy : *

39: em_htgo_hum : *

40: em_htgo_mus : *

41: em_htgo_other : *

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	6	A89789
2	18	100.0	18	6	A80876
3	18	100.0	18	6	AX105148
4	18	100.0	18	6	AX455555
5	18	100.0	1000	10	S8242083
6	18	100.0	76047	10	AL665944
7	18	100.0	110000	2	AC073744.2
8	18	100.0	110000	2	AC073744.3
9	18	100.0	189236	10	AL607020
10	18	100.0	268294	2	AC020885
11	18	100.0	287927	2	AC079530
12	17	94.4	18	6	AX104114
13	17	94.4	18	6	AX355358
14	17	94.4	24	6	AX463126
15	17	94.4	24	6	AX463127
16	16.4	91.1	3184	3	DHPDMP
17	16.4	91.1	4663	3	AX122244
18	16.4	91.1	70886	2	AC099321
19	16.4	91.1	80254	2	AC019531
20	16.4	91.1	101607	8	AP004334
21	16.4	91.1	102237	8	AC099322
22	16.4	91.1	152448	8	AP004339
23	16.4	91.1	162726	9	AL157881
24	16.4	91.1	169905	9	AL442064
25	16.4	91.1	186465	3	AC122541
26	16.4	91.1	192681	3	AC011905
27	16.4	91.1	252828	2	AL590646
28	16.4	91.1	300829	2	AE003475
29	16.4	88.9	157225	2	AC114086
30	15.4	85.6	1832	3	AB055144
31	15.4	85.6	2401	3	AB055144
32	15.4	85.6	9640	9	AC092955
33	15.4	85.6	54623	2	AC098392
34	15.4	85.6	63507	2	AC079266
35	15.4	85.6	80195	2	AC103059
36	15.4	85.6	94212	2	AC091848
37	15.4	85.6	94296	2	AL160261
38	15.4	85.6	98366	2	AC108548
39	15.4	85.6	98775	2	AC121723
40	15.4	85.6	107454	2	AC106689
41	15.4	85.6	114144	8	U78721
42	15.4	85.6	122556	9	AL391863
43	15.4	85.6	135203	9	AC025278
44	15.4	85.6	140596	2	RN75P15
45	15.4	85.6	142504	2	AC129671

ALIGNMENTS

RESULT 1

LOCUS A89789

DEFINITION Sequence 11 from Patent WO9832462.

ACCESSION A89789

VERSION A89789.1 GI:6738303

KEYWORDS

SOURCE

ORGANISM

REFERENCE 1 (bases 1 to 18)

AUTHORS Lipford, G. B. and Heeg, K.

TITLE PHARMACEUTICAL COMPOSITIONS COMPRISING A POLYNUCLEOTIDE AND OPTIONALLY AN ANTIGEN ESPECIALLY FOR VACCINATION

JOURNAL Patent: WO 9832462-A 11 30-JUL-1998;

FEATURES LIPFORD GRAYSON B (DE); HERG KLAUS (DE)
Location/Qualifiers

Source 1. .18
/db_xref="taxon:32644"

BASE COUNT 5 a 4 c 5 g 4 t

Query Match 100.0%; Score 18; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCTATGACGTTCCAAG 18
DB 1 AGCTATGACGTTCCAAG 18

RESULT 2

LOCUS A90876 18 bp DNA linear PAT 22-JAN-2000

DEFINITION Sequence 11 from Patent EP0855184.

ACCESSION A90876

VERSION A90876.1 GI:6739275

KEYWORDS

SOURCE

ORGANISM

REFERENCE 1 (bases 1 to 18)

AUTHORS Heeg, K.P. and Lipford, G.B.

TITLE Antigen especially for vaccination

JOURNAL Patent: EP 0855184-A 11 29-JUL-1998;

HERG KLAUS PROF DR (DE); LIPFORD GRAYSON B DR (DE)

Location/Qualifiers

Source 1. .18
/db_xref="taxon:32644"

BASE COUNT 5 a 4 c 5 g 4 t

Query Match 100.0%; Score 18; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCTATGACGTTCCAAG 18
DB 1 AGCTATGACGTTCCAAG 18

RESULT 3

LOCUS AX105148 18 bp DNA linear PAT 30-APR-2001

DEFINITION Sequence 46 from Patent WO0122990.

ACCESSION AX105148

VERSION AX105148.1 GI:13921298

KEYWORDS

SOURCE

ORGANISM

REFERENCE 1 (bases 1 to 18)

AUTHORS Hartmann, G.D., Bratzler, R.L. and Krieg, A.U.

TITLE Methods related to immunostimulatory nucleic acid-induced

JOURNAL Patent: WO 0122990-A 46 05-APR-2001;

Coley Pharmaceutical Group, Inc. (US); UNIVERSITY OF IOWA RESEARCH

FOUNDATION (US)

Location/Qualifiers

Source 1. .18
/db_xref="taxon:32630"

BASE COUNT 5 a 4 c 5 g 4 t

Query Match 100.0%; Score 18; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCTATGACGTTCCAAG 18
DB 1 AGCTATGACGTTCCAAG 18

RESULT 4

LOCUS AX455555 18 bp DNA linear PAT 06-JUL-2002

DEFINITION Sequence 32 from Patent WO0222809.

ACCESSION AX455555

VERSION AX455555.1 GI:21714623

KEYWORDS

SOURCE

ORGANISM

REFERENCE 1

AUTHORS Bauer, S., Lipford, G. and Wagner, H.

TITLE Process for high throughput screening of cpg-based

JOURNAL Immuno-agonist/antagonist

Patent: WO 0222809-A 32 21-MAR-2002;

Coley Pharmaceutical GmbH (DE)

Location/Qualifiers

Source 1. .18
/db_xref="taxon:32630"

BASE COUNT 5 a 4 c 5 g 4 t

Query Match 100.0%; Score 18; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 7.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 AGCTATGACGTTCCAAG 18
DB 1 AGCTATGACGTTCCAAG 18

RESULT 5

LOCUS S8242053 1000 bp DNA linear ROD 03-DEC-1996

DEFINITION Interleukin-12 p40 subunit [mice, Genomic, 1000 nt, segment 3 of

7].

ACCESSION S82422

VERSION S82422.1 GI:1699185

KEYWORDS

SEGMENT

SOURCE

ORGANISM

Mus sp.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 1000)

Tone, Y., Thompson, S.A., Babik, J.M., Nolan, K.F., Tone, M., Raven, C.

and Waldmann, H.

Structure and chromosomal location of the mouse Interleukin-12 p35

and-p40-subunit-genes

JOURNAL Eur. J. Immunol. 26 (6), 1222-1227 (1996)

REMARK 96257799

GENBANK staff at the National Library of Medicine created this

entry [NCBI g1bbsg 178372] from the original journal article.

This sequence comes from Fig. 4.

Map location: 11.

Location/Qualifiers

Source 1. .1000
/db_xref="taxon:10095"

BASE COUNT 314 a 221 c 207 g 258 t

ILC

RESULT 7
AC073744_2



In the feature table with their source databases: Em, EMBL, SW, SWISSPROT, Tr, TrEMBL, Wp, WormPep, Information on the WormPep database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep from the RCI-23 Mouse PAC library constructed by the group of Pieter de Jong. For further details see <http://www.chori.org/jacpac/home.htm> VECTOR: PAC63.6.

FEATURES
Source Location/Qualifiers
1..189236

BASE COUNT 55297 a 41962 c 40531 g 51446 t
ORIGIN

Query Match Best Local Similarity 100.0%; Score 18; DB 10; Length 189236;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 189148 AGCTATGACCTTCCACAG 189165

RESULT 10
LOCUS AC020885
DEFINITION Mus musculus clone RP23-46411, LOW-PASS SEQUENCE SAMPLING.
ACCESSION AC020885
VERSION AC020885.2 GI:6980212
KEYWORDS HTG, HTGS, PHASEO.
SOURCE Mus musculus.
ORGANISM Mus musculus.

REFERENCE 1 (bases 1 to 268294)
AUTHORS Doe Joint Genome Institute.
TITLE Sequencing of Mouse
JOURNAL Unpublished
AUTHORS Doe Joint Genome Institute.
TITLE Direct Submission
JOURNAL Submitted (10-JAN-2000) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
On Feb 16, 2000 this sequence version replaced g1:666423.
NOTE: This record contains 183 individual
* sequencing reads that have not been assembled into
* contigs. Runs of N are used to separate the reads
* and the order in which they appear is completely
* arbitrary. Low-pass sequence sampling is useful for
* identifying relationships among clones that may be gene-rich and allows
* overlap relationships among clones to be deduced.
* However, it should not be assumed that this clone
* will be sequenced to completion. In the event that
* the record is updated, the accession number will
* be preserved.

1013: contig of 1013 bp in length
1014 1615: gap of unknown length
1616 2405: gap of unknown length
2406 3234: gap of unknown length
3234: contig of 829 bp in length
3533: gap of unknown length
4467: gap of unknown length
5401: contig of 934 bp in length
gap of unknown length

5402 6154: contig of 753 bp in length
6155 gap of unknown length
6155 6629: contig of 475 bp in length
6630 7176: gap of unknown length
7177 7824: gap of unknown length
7825 8656: gap of unknown length
8657 8865: gap of unknown length
8866 9544: gap of unknown length
9545 10280: gap of unknown length
10281 10975: gap of unknown length
10976 11742: gap of unknown length
11743 12178: gap of unknown length
12179 12887: gap of unknown length
12888 13607: gap of unknown length
13608 13911: gap of unknown length
13912 14819: gap of unknown length
14820 15571: gap of unknown length
15572 15872: gap of unknown length
15873 16608: gap of unknown length
16609 16851: gap of unknown length
16852 17277: gap of unknown length
17278 18057: gap of unknown length
18058 18704: gap of unknown length
18705 19414: gap of unknown length
19415 20372: gap of unknown length
20373 21010: gap of unknown length
21011 21258: gap of unknown length
21259 22363: gap of unknown length
22364 23639: gap of unknown length
23640 24853: gap of unknown length
24854 25795: gap of unknown length
25796 27027: gap of unknown length
27028 27729: gap of unknown length
27730 28722: gap of unknown length
28723 29714: gap of unknown length
29715 30858: gap of unknown length
30859 31397: gap of unknown length
31398 31671: gap of unknown length

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31672 32959: contig of 1288 bp in length
32960 33791: contig of 832 bp in length
33792 34848: contig of 1057 bp in length
34849 35060: contig of 212 bp in length
35061 35776: contig of 716 bp in length
35777 35903: contig of 127 bp in length
35904 36602: contig of 699 bp in length
36603 37110: contig of 508 bp in length
37111 38059: contig of 949 bp in length
38060 38730: contig of 671 bp in length
38731 39790: contig of 1060 bp in length
39791 40327: contig of 537 bp in length
40328 40442: contig of 115 bp in length
40443 41688: contig of 1246 bp in length
41689 42688: contig of 1000 bp in length
42689 43847: contig of 1159 bp in length
43848 44511: contig of 664 bp in length
44512 45780: contig of 1269 bp in length
45781 47202: contig of 1422 bp in length
47203 48647: contig of 1445 bp in length
48648 49652: contig of 1005 bp in length
49653 50485: contig of 833 bp in length
50486 51527: contig of 1042 bp in length
51528 53119: contig of 1592 bp in length
53120 53623: contig of 504 bp in length
53624 54669: contig of 1046 bp in length
54670 55309: contig of 640 bp in length
55310 56382: contig of 1073 bp in length
56383 56625: contig of 243 bp in length
56626 57345: contig of 720 bp in length
57346 57505: contig of 160 bp in length
57506 58908: contig of 1403 bp in length
58909 59968: contig of 1060 bp in length
59969 61377: contig of 1409 bp in length
61378 62291: contig of 914 bp in length
62292 63319: contig of 1028 bp in length
gap of unknown length

63320 63818: contig of 499 bp in length
63819 64823: contig of 1005 bp in length
64824 65269: contig of 446 bp in length
65270 65904: contig of 635 bp in length
65905 66815: contig of 911 bp in length
gap of unknown length

100.0% Score 18; DB 2: Length 268294;
Best Local Similarity 100.0%; Pred. No. 9.9; 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches

1 AGCTATGACCTTCACAGG 18
|||||
217636 AGCTATGACCTTCACAGG 217619

Query Match
Best Local Similarity 100.0%; Pred. No. 9.9; 0; Indels 0; Gaps 0;
Matches 18; Conservative 0; Mismatches

RESULT 11
AC079530
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

AC079530 287927 bp DNA linear HTG 02-SEP-2000
Mus musculus clone RP23-342G15, WORKING DRAFT SEQUENCE, 53
unordered pieces.
AC079530.1 GI:9964895
HTG; HTGS_PHASE1; HTGS_DRAFT.
Mus musculus.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 287927)
DOE Joint Genome Institute.
Sequencing of Mouse
Unpublished
2 (bases 1 to 287927)
DOE Joint Genome Institute.
Direct Submission
Submitted (02-SEP-2000) Production Sequencing Facility, DOE Joint
Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
-----Genome Center
Center: Joint Genome Institute
Center Code: JGI
Web site: http://www.jgi.doe.gov

Project Information
Center Project Name: 1868359
Center Clone name: RPCT-23_342G15

Summary Statistics
Consensus quality: 236925 bases at least Q40
Consensus quality: 254207 bases at least Q20
Consensus quality: 258663 bases at least Q20
Estimated insert size: 210000; pulse field gel estimation
Estimated insert size: 282727; sum-of-contigs field gel estimation
Quality coverage: 10.41 in Q20 bases; pulse field gel estimation
Quality coverage: 10.41 in Q20 bases; sum-of-contigs estimation
NOTE: This is a 'working draft' sequence. It currently
* consists of 53 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.
1
1637 1636: contig of 1636 bp in length
1736: gap of unknown length
1737 1736: contig of 1343 bp in length
3079: contig of unknown length
3179: gap of unknown length
3180 4715: contig of 1536 bp in length
4716 4815: gap of unknown length
4816 5816: contig of 1001 bp in length

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5817 5916: gap of unknown length
5917 7443: contig of 1527 bp in length
7444 7543: gap of unknown length
7544 9268: contig of 1725 bp in length
9269 9368: gap of unknown length
9369 10740 10738: contig of 1371 bp in length
10740 10839: gap of unknown length
10840 12239: contig of 1400 bp in length
12240 12339: gap of unknown length
12340 14093: contig of 1754 bp in length
14094 14193: gap of unknown length
14194 15523: contig of 1330 bp in length
15524 15624 15623: gap of unknown length
15624 17085: contig of 1462 bp in length
17086 17185: gap of unknown length
17186 18330: contig of 1045 bp in length
18331 18523: gap of unknown length
18524 18623: contig of 1193 bp in length
19624 20712: gap of unknown length
20713 20812: gap of unknown length
20813 21950: contig of 1138 bp in length
21951 22050: gap of unknown length
22051 23824 23823: contig of 1774 bp in length
23825 25235: gap of unknown length
25236 25325: contig of 1301 bp in length
25326 26350: gap of unknown length
26351 26531 26530: contig of 1205 bp in length
26531 28598: contig of 1968 bp in length
28599 28698: gap of unknown length
28699 29722: contig of 1024 bp in length
29723 30922: gap of unknown length
30923 31022: contig of 1100 bp in length
31023 32970: gap of unknown length
32971 33070: contig of 1948 bp in length
33071 35474: gap of unknown length
35475 35574: contig of 2404 bp in length
35575 36870: gap of unknown length
36871 36970: contig of 1296 bp in length
36971 38093: gap of unknown length
38094 38193: contig of 1123 bp in length
38194 40123: gap of unknown length
40124 40223: contig of 1930 bp in length
40224 41625: gap of unknown length
41626 41725: contig of 1402 bp in length
41726 46312: gap of unknown length
46313 46412: contig of 4587 bp in length
46413 50230: gap of unknown length
50231 50330: contig of 3818 bp in length
50331 51665: gap of unknown length
51666 51765: contig of 1335 bp in length
51766 53285: gap of unknown length
53286 53385: contig of 1520 bp in length
53386 56499: gap of unknown length
56499 56599: contig of 3114 bp in length
56600 57787 57786: gap of unknown length
57787 57887 57886: contig of 1187 bp in length
57887 63353: gap of unknown length
63354 63454 63453: contig of 5467 bp in length
63454 69163: gap of unknown length
69164 69263: contig of 5710 bp in length
69264 74152: gap of unknown length
74153 74252: contig of 4889 bp in length
74253 79702: gap of unknown length
79703 79802: contig of 5450 bp in length
79803 86526: gap of unknown length
86527 86626: contig of 6724 bp in length
86626 92661: gap of unknown length
92661 92761: contig of 6035 bp in length
92761 97809: gap of unknown length
97809 97909: contig of 5048 bp in length
97909: gap of unknown length

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97910 102775: contig of 4866 bp in length
102776 102875: gap of unknown length
102876 108736: contig of 5861 bp in length
108737 108837: gap of unknown length
108837 117123: contig of 8286 bp in length
117123 117223: gap of unknown length
117223 124266: contig of 7044 bp in length
124267 124367: gap of unknown length
124367 137828: contig of 13462 bp in length
137829 137929: gap of unknown length
137929 144300: contig of 6372 bp in length
144301 144400: gap of unknown length
144401 159887: contig of 15487 bp in length
159887 159987: gap of unknown length
159988 170526: contig of 10539 bp in length
170527 170627: gap of unknown length
170627 185958: contig of 15332 bp in length
185959 186058: gap of unknown length
186059 203429: contig of 17371 bp in length
203430 203529: gap of unknown length
203530 222636: contig of 19106 bp in length
222636 222735: gap of unknown length
222735 242871: contig of 20136 bp in length
242872 242972: gap of unknown length
242972 287927: contig of 44956 bp in length.
Location/Qualifiers
1. 287927
/organism="Mus musculus"
/db_xref="taxon:10090"
/clone="RP23-342G15"
/clone.lib="RP23-342G15"

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BASE COUNT 81254 a 63612 c 61615 g 76140 t 5306 others
ORIGIN

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Query Match
Best Local Similarity 100.0%; Score 18; DB 2; Length 287927;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 174744 AGCTATGACGTTCCAGG 174761
1 AGCTATGACGTTCCAGG 18
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RESULT 12
LOCUS AX104114 18 bp DNA linear PAT 30-APR-2001
DEFINITION Sequence 306 from Patent WO0122972.
ACCESSION AX104114
VERSION AX104114.1 GI:13920311
KEYWORDS
SOURCE
ORGANISM
Synthetic construct.
artificial construct.
REFERENCE
1 (bases 1 to 18)
Krieg, A.M., Schetter, C. and Vollmer, J.C.
Immunostimulatory nucleic acids
Patent: WO 0122972-A 306 05-APR-2001.
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US); Coley Pharmaceutical
GmbH (DE)

```

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FEATURES
SOURCE
Location/Qualifiers
1. 18
/organism="Synthetic construct"
/db_xref="taxon:32630"
4 a 4 c 6 g 4 t

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BASE COUNT 4 a 4 c 6 g 4 t
ORIGIN

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Query Match
Best Local Similarity 94.4%; Score 17; DB 6; Length 18;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

Db 2 GCTATGACGTTCCAGG 18
|||||
1 GCTATGACGTTCCAGG 17

```

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RESULT 13
AX355358 18 bp DNA linear PAT 06-FEB-2002
LOCUS Sequence 386 from Patent WO0197843.
ACCESSION AX355358
VERSION AX355358.1 GI:18620026
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE
1
AUTHORS Weier, G., and Hartmann, G.
TITLE Methods for enhancing antibody-induced cell lysis and treating
cancer
JOURNAL Patent: WO 0197843-A 386 27-DEC-2001;
UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
FEATURES
source location/Qualifiers
1.18
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="Synthetic oligonucleotide-phosphorothioate
backbone"
BASE COUNT 4 a 4 c 6 g 4 t
ORIGIN
Query Match 94.4%; Score 17; DB 6; Length 18;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 GCTATGACGTTCCAAG 18
|||||
Db 1 GCTATGACGTTCCAAG 17
RESULT 14
AX463126 24 bp DNA linear PAT 15-JUL-2002
LOCUS Sequence 9 from Patent WO0250108.
ACCESSION AX463126
VERSION AX463126.1 GI:21886107
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE
1
AUTHORS Marchal, G., Pescher, P., and Romaln, F.
TITLE Immunogenic glycopeptides, screening, preparation and uses
JOURNAL Patent: WO 0250108-A 9 27-JUN-2002;
PASTEUR INSTITUTE (FR)
FEATURES
source location/Qualifiers
1.24
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="linker"
BASE COUNT 5 a 8 c 7 g 4 t
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Query Match 94.4%; Score 17; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 GCTATGACGTTCCAAG 18
|||||
Db 4 GCTATGACGTTCCAAG 20
RESULT 15
AX463127 24 bp DNA linear PAT 15-JUL-2002
LOCUS Sequence 10 from Patent WO0250108.
ACCESSION AX463127

VERSION AX463127.1 GI:21886108
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE
1
AUTHORS Marchal, G., Pescher, P., and Romaln, F.
TITLE Immunogenic glycopeptides, screening, preparation and uses
JOURNAL Patent: WO 0250108-A 10 27-JUN-2002;
PASTEUR INSTITUTE (FR)
FEATURES
source location/Qualifiers
1.24
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BASE COUNT 4 a 7 c 8 g 5 t
ORIGIN
Query Match 94.4%; Score 17; DB 6; Length 24;
Best Local Similarity 100.0%; Pred. No. 31;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 2 GCTATGACGTTCCAAG 18
|||||
Db 21 GCTATGACGTTCCAAG 5
Search completed: June 26, 2003, 16:13:10
Job time : 929.63 secs

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